INTERARCH BUILDING PRODUCTS

QUARTERLY NEWSLETTER

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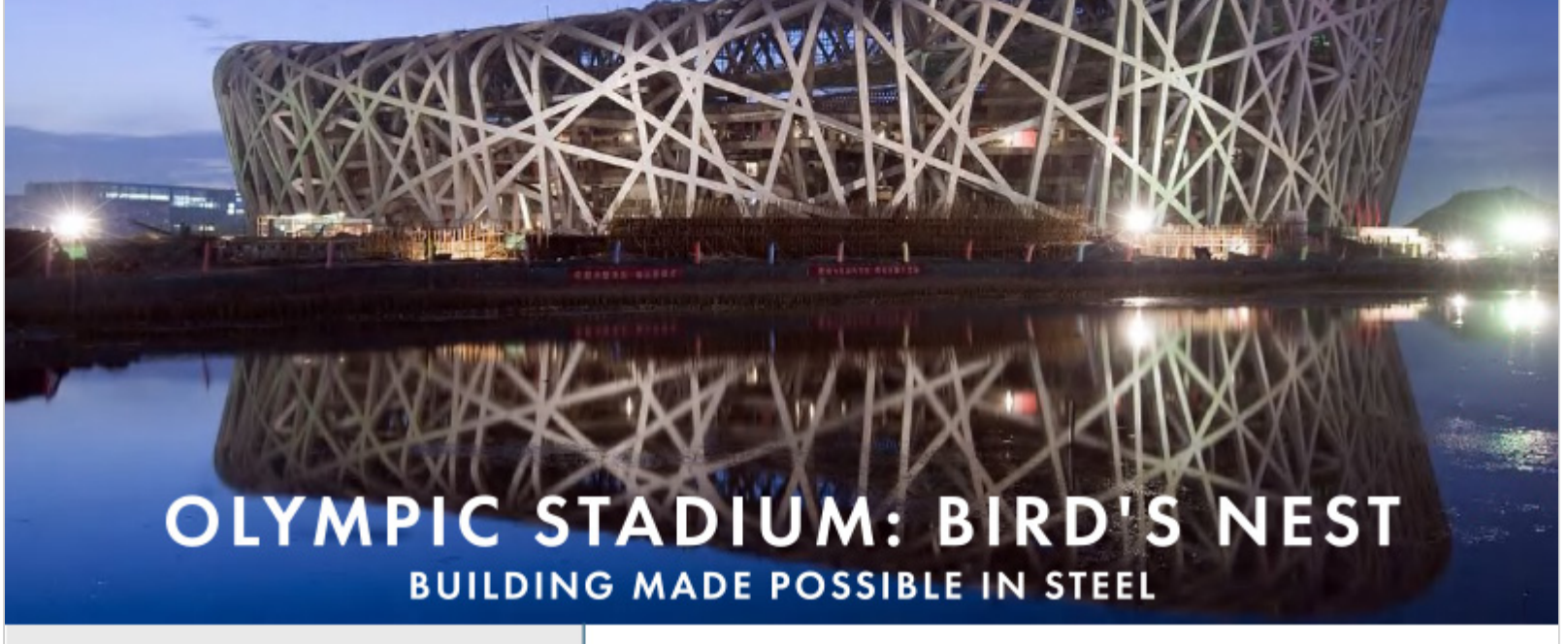


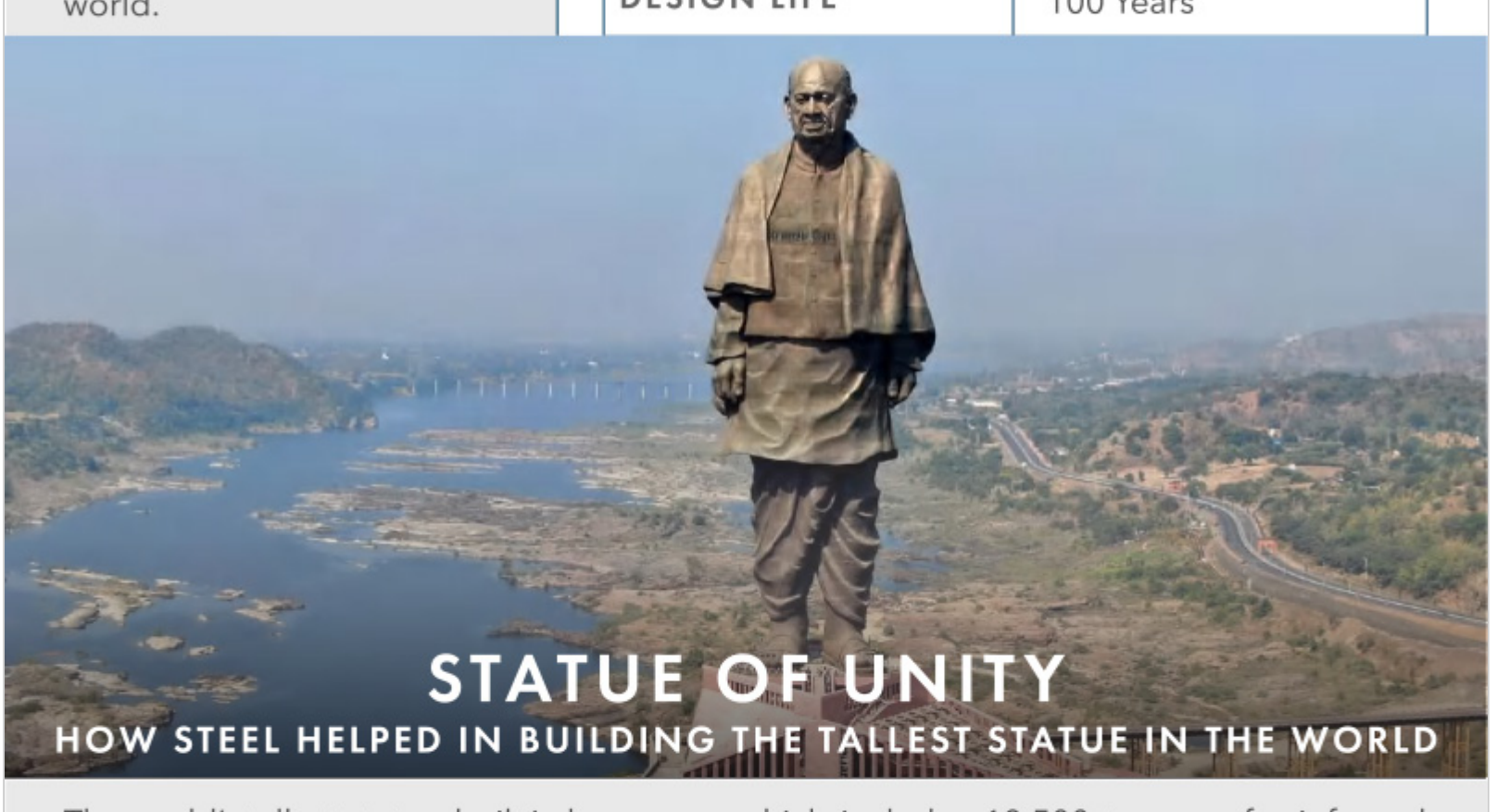
OLYMPIC STADIUM: BIRD'S NEST

BUILDING MADE POSSIBLE IN STEEL

The Beijing National Stadium, commonly referred to as "The Bird's Nest," which was built for the 2008 Olympics is considered to be the largest steel structure in the world today. It is also the world's largest steel structure with 26 km of unwrapped steel used. The building took five years to complete and was constructed using 42,000 tons of steel, making it the largest steel structure in the world.

The outer surface of the façade is inclined at approximately 13 degrees to the vertical. The outer surface of the façade is inclined at approximately 13 degrees to the vertical. The largest span of the steel structure is more than 343 meters.

TOTAL SITE AREA	204,278 m²
STRUCTURE	36 km of unwrapped steel length
LARGEST STEEL TRUSS	343 m
SEATING CAPACITY	80,000 - 91,000
DESIGN LIFE	100 Years

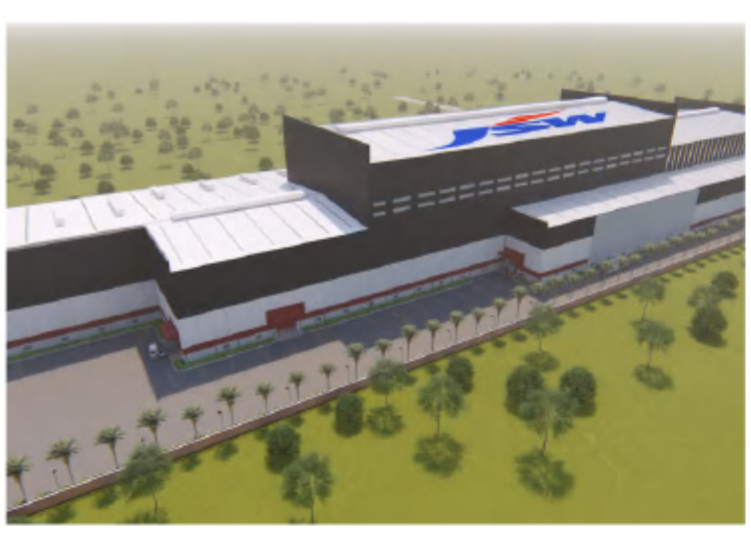


STATUE OF UNITY

HOW STEEL HELPED IN BUILDING THE TALLEST STATUE IN THE WORLD

The world's tallest statue, built in honour of Sardar Vallabhbhai Patel overtaking the Spring Temple Buddha in China and the Statue of Liberty. Massive Volume of steel was used in the construction of India's Iron man statue. The erection of this colossal structure required enormous amounts of steel. A total of 25,000 metric tonnes of steel were used in the construction of the statue which includes 18,500 tonnes of reinforced steel and 6,500 tonnes of structured steel. Apart from this, the Statue of Unity also utilised 1,700 tonnes of bronze and 1,850 tonnes of bronze cladding on the exterior. It has the capability of withstanding wind speeds of up to 50 m per second (almost 180 km/hr.) and earthquakes measuring up to 6.5 on the Richter scale.

MAJOR MILESTONE PROJECTS DELIVERED BY INTERARCH RECENTLY



JSW STEEL COATED PRODUCTS LTD

Vasind & Kalmeshwar, Maharashtra

Building Usage – PLTCM, CGL and CAL & CCL Complex

Project Area – 87,500 m²

Features :-
- Variable heights of the building ranging from 19.5m to 45m
- More than 17 nos. of EOT cranes of 40 to 50 MT capacities in tandem

JSW STEEL LTD

Dolvi, Maharashtra

Building Usage - LCP project (Blower House Building, Lime Dolo & Lime Stone Storage building, Kiln Feed Building)

Building Weight – 5000 MT

Features :-
- Maximum height of the building is 54m

JAGDAMBA STEELS PVT LTD

Simara, Nepal

Building Usage – Cold Mill Rolling Mill complex

Project Area – 38,000 m²

Features :-
- Largest Steel structure building delivered in Nepal for the Steel Industry
- Maximum Height of the building is 32.5m

OBEROI FLIGHT SERVICES

Mumbai, Maharashtra

Building Usage – G+ 2 storey Flight Kitchen cum corporate office building

Project Area – 8,000 m²

Features :-
- A First-of-its-kind multi-level Kitchen facility cum corporate office in hybrid steel structure
- Maximum height of the building is 18.6m

TROUW NUTRITION INDIA PVT LTD

Jadcherla, Telangana

Building Usage – G+12 Storey Animal Feed Mill

Project Area – 5,000 m²

Features :-
- Maximum height of the building is 46.5m

INTERGLOBE AVIATION LTD

Bangalore, Karnataka

Building Usage – Twin Bay Hanger & Warehouse building

Project Area – 14,000 m²

Features :-
- Clear span Building of 90m
- Maximum height of the building is 20m

FUJITA CORPORATION

Varanasi, Uttar Pradesh

Building Usage – International Convention Center

Project Area – 5,000 m²

Features :-
- Elliptical curve with the slope on either side considered for Roof Slope.
- Maximum height of the building is 27m

LOGOS INDIA

Bangalore, Karnataka

Building Usage – Integrated Logistic Hub

Project Area – 65,000 m²

Features :-
- Maximum height of the building is 12.5m

FUTURE PROSPECTS OF THE STEEL INDUSTRY IN INDIA

Steel is a wonderfully expressive construction material that excels in providing the flexibility to express a building's structural frame, either externally or internally, and can help facilitate the artistic expression. As a product that is made almost entirely from recycled scrap, steel is the 'greenest' a metal can get. It meets the triple goals of People, Profit, and Planet by its inherent nature. People, because it's the safest and most hygienic alternative. Profit, because it's lowest on lifecycle costing and Planet, because this metal lasts longest, and lives forever.

Today, rapid development of infrastructure is possible with Pre-Engineered structures. Practically all buildings, bridges, high-rise buildings, and warehouses have major applications for structural steel over any other building material, for construction, from industrial equipment, to finished products. This is mainly because of the innumerable benefits structural steel provides and brings numerous benefits to a project.

NATIONAL STEEL POLICY

STEEL DEVELOPMENT

STEEL RESEARCH AND TECHNOLOGY MISSION OF INDIA

The Indian Steel sector has been relatively been more vibrant and has been growing at a CAGR of about 5%-6% YOY. With Government of India focusing on using on developing will boost steel demand in the country. Government of India has been supporting the Steel industry with various policies and schemes and initiatives. Policies like New National Steel Policy (NSP) 2017, Smart Cities, Make in India, R&D and innovation, Customs duty on plant & equipment, Export duty, FDI & Export duty, Attracting Capital investments, MSME/ SME cluster development, Incentives towards green technology, digitalization initiatives etc.to support the Indian Steel Industry.

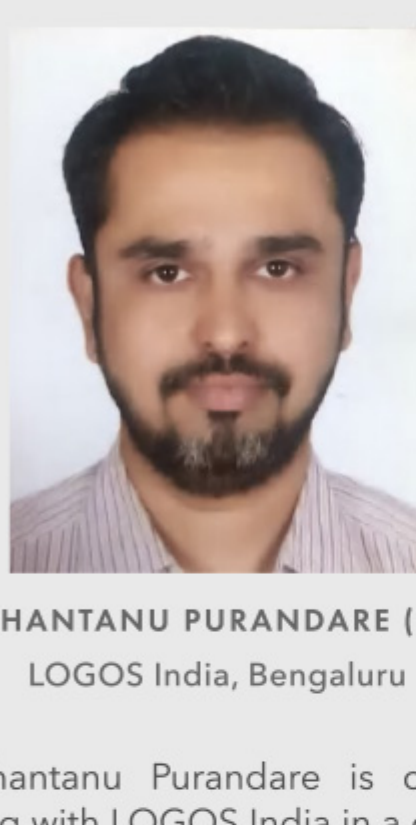
Hopefully, the challenges faced by big steelmakers with inventories & balance sheet issues will also be resolved and we can see some fresh capital being infused towards improving manufacturing facilities / capacities. This will help us in producing better products at competitive prices. R&D in the industry is also something that needs to be looked at, and the government can consider some incentives for developing local expertise in this area.

INDIA BECAME MAJOR EXPORTER OF STEEL TO THE WORLD

Export of finished Steel has seen a huge jump during the last three months due to a significant increase in exports to China, Spain and Italy. India exported 7.2% of total finished Steel produced in July 2019 which increased to 20.3% in July 2020. China alone accounted for nearly 60% of the increase in Steel exports mostly in form of semis and hot-rolled coils both from primary and secondary steel producers. This has resulted in a steady increase in crude Steel and finished steel production, from the month of April 2020 onwards.

India's steel production contracted since the arrival of COVID-19. However, exports surprisingly notched a new high in the April-July 2020 period. This is on the back of rising domestic demand and iron ore prices, higher international prices and subdued production and limited imports. On the exports front, Indian steel companies, like Tata Steel Ltd and JSW Steel Ltd, sold a total of 4.64 million tons of finished and semi-finished steel products in the world market between April and July. That total compares to 1.93 million tons shipped in the same period a year earlier.

INDUSTRIAL SPOKESPERSON



MR. SHANTANU PURANDARE (SRTMI)

LOGOS India, Bengaluru

Mr. Shantanu Purandare is currently working with LOGOS India in a capacity of Project Director and heading construction portfolio of LOGOS projects at south and west region of India. LOGOS Property, an Australian logistic park developer in a joint venture with Assetz Group-Bengaluru have lined up to deliver 50M Sq. ft warehousing infrastructure.

Mr. Shantanu feels that with changed retail dynamics and growth of e-commerce in past few years there will be significant movement in the requirement of warehousing. Especially tier 2 and tier 3 cities will have great prospects for warehousing growth for the coming 5 years. The product quality and shorter timelines will be the key selection criteria for warehousing developer which is subsequently raised higher demand for pre-engineered, pre-cast and pre-fabrication products for warehousing.

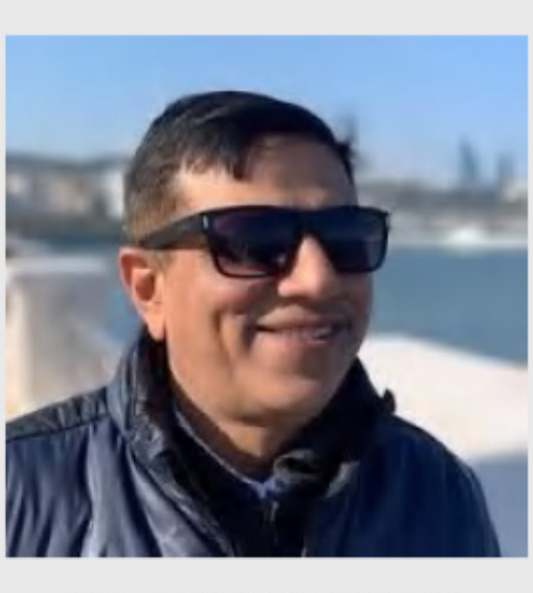
According to him, there will be significant growth for pre-engineered building in coming 5-8 years. PEB manufacturer should pay more focus on innovation and value engineering to improve product durability, ace of installation and to explore opportunities to use of Pre Engineered Building solution in other sectors outside industrial and warehousing. Precession and innovation will be the key to sustainable growth.

Focusing on experience with Interarch, he feels that Interarch has been a performer on all the projects we have been associated with them so far. A collaborative approach and flexibility to meet project needs and customer satisfaction are the key characteristics of Interarch and its people. With 40% of the Pre Engineered buildings scope belongs to the Pre Engineered Building manufacturer, hence the success of the project is highly dependent on stakeholder like Interarch and so far we have been glad to be associated with Interarch for our PEB requirement.

As a suggestion, we would like to see a consistent approach and standardization in the management of HSE and quality, where there is a room for significant improvement.

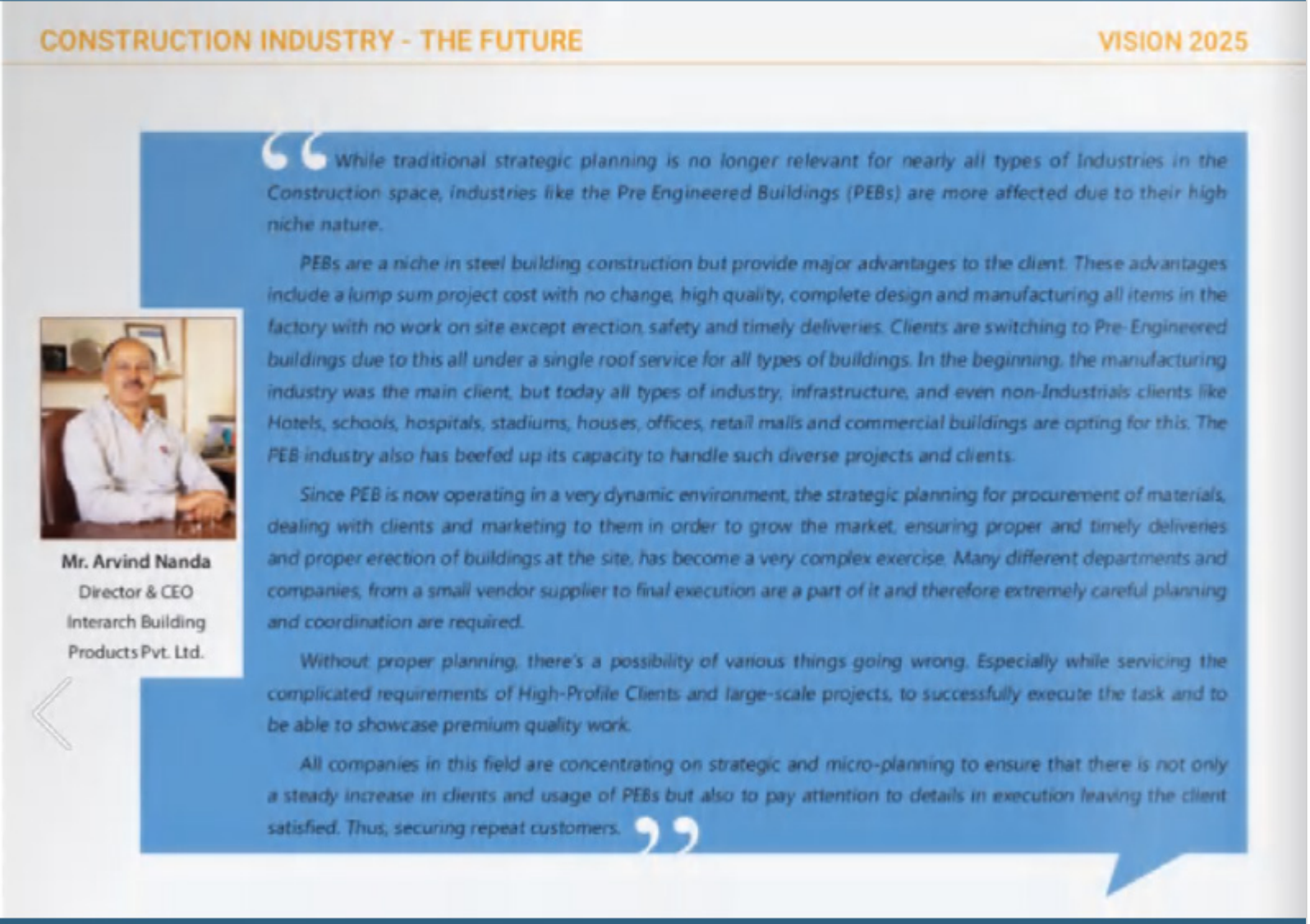
INDUSTRIAL SPOKESPERSON

Interarch has been a pioneer in the pre Engineered buildings industry since last two decades.
Interarch is one of the best choices for us in Steel buildings segment. With their rich experience in design and value engineering to project execution, they handle the whole project quite professionally and on time as scheduled.
Wishing best of luck for future projects.
Their professionalism in every aspect sets them apart from their competitors.



MR. GAURAV VARMANI
Studio Line Design Architects, New Delhi

PRESS COVERAGE



CONSTRUCTION INDUSTRY - THE FUTURE VISION 2025

"While traditional strategic planning is no longer relevant for nearly all types of Industries in the Construction space, industries like the Pre Engineered Buildings (PEBs) are more affected due to their high niche nature.

PEBs are a niche in steel building construction but provide major advantages to the client. These advantages include a lump sum project cost with no change, high quality, complete design and manufacturing all items in the factory with no work on site except erection, safety and timely deliveries. Clients are switching to Pre-Engineered buildings due to this all under a single roof service for all types of buildings. In the beginning, the manufacturing industry was the main client, but today all types of industry, infrastructure, and even non-Industrials clients like Hotels, schools, hospitals, stadiums, houses, offices, retail malls and commercial buildings are opting for this. The PEB industry also has beefed up its capacity to handle such diverse projects and clients.

Since PEB is now operating in a very dynamic environment, the strategic planning for procurement of materials, dealing with clients and marketing to them in order to grow the market, ensuring proper and timely deliveries and proper erection of buildings at the site, has become a very complex exercise. Many different departments and companies, from a small vendor supplier to final execution are a part of it and therefore extremely careful planning and coordination are required.

Without proper planning, there's a possibility of various things going wrong. Especially while servicing the complicated requirements of High-Profile Clients and large-scale projects, to successfully execute the task and to be able to showcase premium quality work.

All companies in this field are concentrating on strategic and micro-planning to ensure that there is not only a steady increase in clients and usage of PEBs but also to pay attention to details in execution leaving the client satisfied. Thus, securing repeat customers."

Mr. Arvind Nanda
Director & CEO
Interarch Building Products Pvt. Ltd.

Here is what our CEO & Founder Director Mr. Arvind Nanda views on **"Traditional strategic planning is no longer enough. Construction chemical/material companies are now required to be versatile strategists, able to think in several worlds and prepare for various scenarios while moving up and down the entire value chain"** at the Civil Engineering & Construction Review Magazine in December 2020.
https://cecr.in/CurrentIssue/Issue/2020/12