



## INTERARCH BUILDING PRODUCTS NEWSLETTER

Vol:9, Issue 8, August 2018

### ● Growth Potential in Power Sector

Power Sector is one of the most critical components of infrastructure and very important for the economic progress of the nations. India's power sector is one of the most diversified in the world. The sources of power generation in India range from conventional sources such as coal, natural gas, oil, hydro and nuclear power to viable non-conventional sources such as wind, solar, and agricultural and domestic waste.



India has been ranked 4th in the Asia Pacific region out of 25 nations on an index that measures their overall power. The total installed capacity of power stations in India stood over 300 GW in 2018. In the recent years, the industry attracted more than US\$ 10 billion in FDI. The Government of India has released its roadmap to achieve more than 150 GW capacities in renewable energy by 2022, which includes around 100 GW of solar power and around 60 GW of wind power. The Union Government of India is preparing a 'rent a roof' policy for supporting its target of generating around 40 GW of power through solar rooftop projects by 2022.

The government's immediate goal is doubling the current production capacity to provide Twenty Four Seven electricity for residential, industrial, commercial and agricultural use.

Numbers of steps and initiatives have been taking like 10-year tax exemption for solar energy projects, etc., in order to achieve India's ambitious renewable energy targets. The government has also sought to restart the stalled hydro power projects and increase the wind energy production.

Power is one of the most critical components of the infrastructure, crucial for the economic development and welfare of nations. In India there is immense scope for this sector:

### ● Possibilities of Interarch Life for Power Generation & Distribution

**Interarch LIFE**, a lifestyle concept for developing modern & elegant infrastructure in steel. Interarch LIFE is focused on enhancing the lifestyle, and creating state-of-the-art facilities & amenities in steel construction. Interarch Life uses the latest technology for turnkey construction of steel buildings in rural and urban development in India.

**Interarch LIFE**, provides a customized structural steel system for Power Generation & Distribution, offers engineering & designed Pre-engineered Steel Building Solution 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

### ● Applications of Pre-Engineered Buildings in the Power Sector:

- Power plant structure
- Sub Station Buildings
- Boiler Structure
- Coal Conveyor Structure
- Boiler Rooms Structure
- Coal Shed and other raw material sheds
- Pipe and cable tray racks
- Machine shops



**Advantages of using Interarch Pre-Engineered Buildings:**

- Power plant construction, in particular, involves extremely heavy loads, Interarch is capable of engineering and manufacturing such loads
- Large clear Span structures are required in a power plant for functional needs and Interarch has the capabilities to deliver up-to 100 M clear span buildings
- Faster manufacturing and erection at site ensure faster completion of the project
- Project structures are pre-designed and manufactured in a controlled factory environment resulting in higher quality

### ● Interarch Delivers First Wind Turbine Blade Manufacturing Plant in India

Interarch Building Products delivered Greenfield Manufacturing Plant for Gamesa in Andhra Pradesh, the scope of work included design & engineering, manufacturing and erection of Phase I of the project for the Leading wind turbine maker Gamesa. The facility will produce G114-2.0 MW wind turbine model, which will have a rotor diameter of 114 meters or 374 feet and will be equipped to produce 300 MW per annum in the initial period.



<b>Project Location</b>	Nellore, Andhra Pradesh	
<b>Building Usage</b>	Greenfield Wind Turbines Finishing & Reel Storage	
<b>Project Area</b>	18,220 Sq. M	
<b>Building Area</b>	Main Plant Building	RM Storage
<b>Length</b>	320 M	35.4 M
<b>Width</b>	43.4 M	43.4 M
<b>Height</b>	13.8 M	9 M
<b>Collateral Load</b>	<ul style="list-style-type: none"> <li>• 60 Kg/Sqm load at purlin for HVAC duct &amp; service piping</li> <li>• 30 Kg/Sqm load on roof for Solar Panel</li> </ul>	
<b>Selismic Zone</b>	III	
<b>Crane Movement</b>	<ul style="list-style-type: none"> <li>• 4 cranes of 14 MT running throughout length</li> <li>• 1 no. of crane having 2 MT running in transverse direction</li> </ul>	
<b>Mezzanine</b>	Mezzanine area of 2796 Sq. M considered having live load of 500 Kg/Sq. m	
<b>Insulation</b>	50 mm thick fiberglass insulation on Roof & Wall	
<b>Roofing Profile</b>	• 0.55mm TCT Standing Seam (SS-2000) color coated Galvalume profile	
<b>Wall Cladding Profile</b>	• 0.50mm TCT Tracdek Hi-Rib color coated Galvalume profile	
<b>Special Features</b>	<ul style="list-style-type: none"> <li>• Connecting corridor between Main Plant &amp; RM Building</li> <li>• Full height partition wall with liner panel &amp; Glasswool Insulation</li> <li>• Fascia considered around the periphery of the building</li> <li>• False ceiling supporting structure considered</li> </ul>	



### ● Safety at Site by Mr. Vikas Kaushal-President Sales & Marketing, Interarch Building Products

One of the most challenging situations which need to be dealt at Pre-Engineered Steel Building sites is the SAFETY of workers and other building occupants. Construction sites are prone to accidents if Safety is not practiced throughout the cycle of the project from concept to execution. While the fall from heights, accidents with construction equipment's and electrocutions are most vulnerable hazards, an unfortunate incident recently at an under construction site of a well-known company working at an under erection plant, also draws our attention towards the importance of engineering knowledge, its application in line with local bylaws / guidelines and experience of practical structure analysis considering wind forces on bare frames of the incomplete Steel building under execution.



At Interarch it is our policy to take foremost account of health & safety of employees and clients. We believe that good safety performance is an integral part of our business and we ensure this by following the documented procedure and providing continual training to our teams in a manner so as to minimize risk and hazards to workers, property and other commuters at the site. We have a Zero accident philosophy and hold excellent reputation and record for Safe construction practices at all our Project sites.

At the site to achieve Zero accident practice, proper safety measures are adopted and monitored through the project head at the site and Head office. Site, in-charge needs to sign-off safety declaration form regularly before starting of any work. Training & Motivational program are organized at the site to ensure the employees follow the safety measures. The weekly safety briefing program is conducted on site and safety week is celebrated at the sites.



### ● Safety Awards & Recognition Won by Interarch Recently:



### ● IBPL Experience for Power

Interarch caters to some of the most diverse steel building construction projects in India ranging from clients like BHEL, ONGC, GE T&D India Ltd, Gamesa Wind Turbines Pvt Ltd and many more. Interarch has emerged into a large EPC player providing critical Project Management Consultancy to its clients.

Main Client/Contractor	City	State	Industry
Bharat Heavy Electricals Ltd	Trichy	T.N	Power & Utility
Gamesa Renewable Pvt Ltd	Nellore	A.P.	Power & Utility
Alstom India Limited	Kurukshetra	Haryana	Power & Utility
ONGC	Ankleshwar	Gujarat	Power & Utility
Anpara Thermal Power Station	Sonbhadra	U.P.	Power & Utility
GE T&D India Ltd	Viththalpur	Gujarat	Power & Utility
ABB Limited	Halol	Gujarat	Power & Utility
Gamesa Wind Turbines Pvt Ltd	Halol	Gujarat	Power & Utility
LM Wind Power Blades (India) Pvt Ltd	Halol	Gujarat	Power & Utility
STER Power Industrial Solutions Ltd	Ahmednagar	Maharashtra	Power & Utility
CGI Lighting Technologies Ltd	Jharsuguda	Odisha	Power & Utility
Volth Hydro India Pvt Ltd	Savli	Gujarat	Power & Utility
Siemens Ltd	New Delhi	New Delhi	Power & Utility
Solar Power (Gujarat) Private Limited	Rapar, Gujarat	Gujarat	Power & Utility
EMC Limited	Baroda	Gujarat	Power & Utility
The Indure Private Limited	Angul, Orissa	Odisha	Power & Utility
GE India Industrial Pvt Ltd	Chakan	Maharashtra	Power & Utility
Lancokondaply Power Ltd	Kondapaly	A.P.	Power & Utility
Lanco Kondapally Power Pvt Ltd	Vijayawada	A.P.	Power & Utility
Arun Renewable Energy	Porbhandhar	Gujarat	Power & Utility
Dempo Industries Pvt Ltd	Verna	Goa	Power & Utility
Voltech Transformers	Chennai	T.N	Power & Utility
Crompton Greaves Ltd	Aurangabad	Maharashtra	Power & Utility



### Project Won / Project Completed

- Project Won**
- ITC Ltd in Andhra Pradesh
  - Bridgestone India Pvt Ltd in Madhya Pradesh
  - Hindustan Unilever Limited in Uttarakhand
  - JSW Steel Coated Products Ltd in Maharashtra
  - HT Media Limited in Uttar Pradesh



- Project Completed**
- Savi Exports in Rajasthan
  - Rohan City Scape Pvt Ltd in Maharashtra
  - IM Gears Pvt Ltd in Tamil Nadu
  - Balarim Warehouse Services in Bihar
  - ARI Armature Steamline LLP in Maharashtra



### ● Events at Interarch

Interarch Building Products participated in Industrial & Engineering Exhibition in Hyderabad, Telangana From 31 August 2018 - 02 September 2018



### ● Training at Interarch:

Interarch Building Products conducts regular and effective training program for employees. Training was conducted on General points related to ISO 9001:2015 for system implementation for Supervisors (Production & Q.C.) & Q.C. Asst. team on 30/07/18 at PN Plant



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