

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

Pre-Engineered Buildings For The Cement Industry

INTERARCH BUILDING PRODUCTS NEWSLETTER

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Future Prospects of the Cement Industry:

India is home to the world's second largest Cement Industry and accounts for over 8% of the global installed capacity. The Indian Cement Industry has an installed capacity of approximately 500 million tonnes comprising about 250 large cement plants.



The cement sector is gearing up for a fast track growth, and the next few years will see the sector zooming past new milestones.

India has a lot of potential for development in the infrastructure and construction sector and the cement sector is expected to largely benefit from it. Cement consumption is expected to grow by 4.5 percent in FY19 supported by a pick-up in the housing segment and higher infrastructure spending.



With help from the government in terms of friendlier laws, lower taxation, and increased infrastructure spending, the sector will grow and take India's economy forward along with it. In Budget 2018-19, Government of India announced setting up of an Affordable Housing Fund of Rs 25,000 crore (US\$ 3.86 billion) under the National Housing Bank (NHB) which will be utilized for easing credit to home buyers. The move is expected to boost the demand of cement from the housing segment.



Possibilities of Interarch Pre-Engineered Buildings for the Cement Industry:

Interarch provides a customized Pre Engineered steel construction solution for the Cement Industry, offers 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.

Pre Engineered Building is designed keeping in mind various applications in the cement manufacturing facility.

| | |
|-----------------------------------|-------------------------------------|
| Coal handling Building | Limestone Handling Building |
| Stacker & Reclaimer shed | Additives Storage Building |
| Additives Hopper Building | Gypsum Handling Building |
| Raw Mill Building | Cement Mill and Bag house |
| Packing & Dispatch Building | Central control room |
| Auxiliaries building for workshop | Loading Unloading Railways Shelters |

Project Spotlight - UltraTech Cement Ltd, Rawan:

UltraTech Cement Ltd is the largest manufacturer of cement in India and ranks among the world's leading cement makers. The company has a consolidated capacity of 102.75 million tonnes per annum (MTPA) of grey cement. UltraTech has a strong presence in international markets such as Bangladesh, UAE, Sri Lanka and Bahrain.

Rawan Cement Works is the largest unit of UltraTech Cement Ltd. in Eastern Cluster of India having a combined plant capacity of 7.67 MTPA of Cement & Clinker.

To ensure the world-class quality of work, commitment to the schedule and adherence to safe work at the site, they partnered with Interarch as their preferred vendor for the Coal Stacker & Reclaimer covering shed, Lime Stone Handling shed and warehouse at Rawan facility.

Interarch Building Products delivered turnkey solution included design & engineering, manufacturing and erection of Coal Handling structure in the project area of 19,720 Sq M which was a challenge to execute such complex structure in the existing manufacturing facility.



| | |
|------------------|--|
| Project Name | UltraTech Cement Limited (Unit - Rawan Cement Works) |
| Project Location | Rawan , Chhattisgarh |
| Building Usage | Coal Stacker & Reclaimer Shed |
| No. of Buildings | 1 |
| Project Area | 19,720 Sq M |
| Length | 232 M |
| Width | 85 M (ClearSpan) |
| Height | 14 M |
| Design Code | IS 800-2007 |

ClearSpan Buildings for the Cement Manufacturing Facilities:

The ClearSpan buildings is a column-free framing system ideal for a structural alternative that will increase capacity, reduced operating cost and allowing for additional clear space for working inside the building. ClearSpan gives end users the versatility to rearrange floor plans or move large machinery without hindrance.

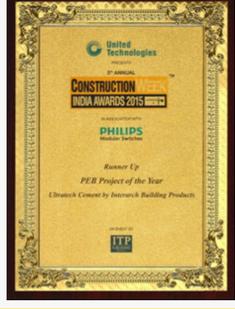
Pre Engineered Building construction is the most optimized construction method for the complex building structure like clearSpan buildings as it reduced the engineering time, the structure is fabricated off-site under precise factory conditions and the highest standards of Safety and quality controlled execution are met with utmost precision at the site.

ClearSpan buildings help in reducing column interfaces inside the building which leads to reducing the project execution time at the site.

Pre Engineered construction system has come up with various alternates' structure sections like Solid Web System and Tripod System uses RHS, SHS & Pipe sections are considered depending upon the complexity and the stability of the building.

Awards & Recognition:

Interarch has been awarded the Runner up Award for "Best Pre-Engineered Building (PEB) Project of the year" for UltraTech Cement Ltd in Chhattisgarh from Construction Week



IBPL Experience in the Cement Industry:

Interarch is well positioned as the preferred choice of the Pre Engineered construction partner with Indian cement companies like UltraTech Cement, Mangalam Cement, Lafarge Cement, Ambuja Cement, JK White Cement.

Interarch have successfully executed complex buildings like Cold Handling Shed, Gypsum Handling Shed, Stacker & Reclaimer Shed, Additives Shed and Parking shed and executed project area spread around 2,00,000 Sq M.

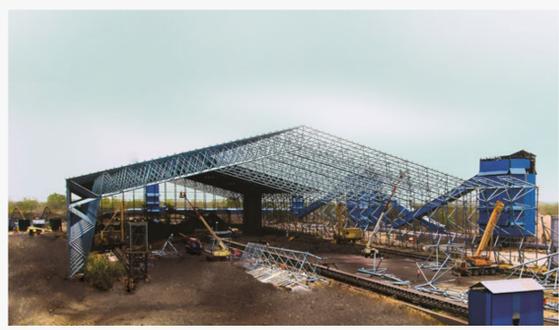


| S. No. | Client Name | Building Usage | Location | State |
|--------|-----------------------|----------------------------------|-------------|----------------|
| 1 | UltraTech Cement Ltd | Coal Stacker & Reclaimer Shed | Rawan | Chhattisgarh |
| 2 | UltraTech Cement Ltd | Limestone Storage Building | Rawan | Chhattisgarh |
| 3 | UltraTech Cement Ltd | Flue Dust Storage Building | Hirmi | Chhattisgarh |
| 4 | UltraTech Cement Ltd | Tarpaulin Shed | Hirmi | Chhattisgarh |
| 5 | UltraTech Cement Ltd | Additive Handling Building | Shambhupura | Rajasthan |
| 6 | UltraTech Cement Ltd | Gypsum Handling Tripper Building | Khor | Madhya Pradesh |
| 7 | Mangalam Cement Ltd | Stacker Reclaimer Building | Morak | Rajasthan |
| 8 | Mangalam Cement Ltd | Coal Stacker & Reclaimer Shed | Morak | Rajasthan |
| 9 | UltraTech Cement Ltd | Truck Loading Shed | Patliputra | Bihar |
| 10 | UltraTech Cement Ltd | Empty Bag Warehouse | Patliputra | Bihar |
| 11 | UltraTech Cement Ltd | Additive Handling Building | Kotputli | Rajasthan |
| 12 | Mangalam Cement Ltd | Fly Ash Yard Building | Morak | Rajasthan |
| 13 | Mangalam Cement Ltd | Laterite Building | Morak | Rajasthan |
| 14 | Lafarge India Pvt Ltd | Coal Stacker & R2claimer Shed | Sonadih | Chhattisgarh |
| 15 | Lafarge India Pvt Ltd | Two Wheeler Parking Shed | Sonadih | Chhattisgarh |
| 16 | Ambuja Cement Ltd | AFR Storage Building | Pali | Rajasthan |
| 17 | JK White Cement Ltd | Warehouse | Katni | Madhya Pradesh |
| 18 | Ambuja Cement Ltd | Cycle Parking Shed | Rawan | Chhattisgarh |

Largest ClearSpan Building delivered for UltraTech Cement Ltd, Rawan:

Interarch delivered turnkey solutions included design & engineering, manufacturing and erection of the Largest Clear Span Building in India of 100 M ClearSpan structure for Coal Stacker & Re-claimer covering shed with a project area of 35,300 Sq M which was a challenge to execute such complex structure in the existing manufacturing facility.

Interarch expert engineering team figured out the complexity of the structure and provided out of the box engineering solution and proposed an open web system using circular hollow steels (CHS) sections.



| Project Won | Project Completed |
|--|---|
| <ul style="list-style-type: none"> Swift Construction Expert in Uttar Pradesh UltraTech Cement Ltd in Rajasthan Takenaka India Pvt Ltd in Tamil Nadu VRV Logistic Park LLP in Uttar Pradesh Autoliv India Pvt Ltd in Karnataka Delta Biopharma Pvt Ltd in Andhra Pradesh | <ul style="list-style-type: none"> Scivco Engineering India Pvt Ltd In Gujarat Covestro India Pvt. Ltd. In Uttar Pradesh Sunita Hydrocolloids Pvt Ltd in Rajasthan Hindustan Unilever Ltd in Punjab Nisha Singla in Punjab |

Training at Interarch:

Interarch organized training for the Helpers team on 13th February, 19 for the General guideline of related process & skill improvement, Safety and House Keeping in Pantnagar plant.



Interarch organized training for the Housekeeping, Fire fighting & salvage teams in Pantnagar plant on 14th February, 19 for Demo related to use a fire extinguisher in Pantnagar plant



