



# POORNIMA

## COLLEGE OF ENGINEERING

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

### Poornima College of Engineering, Jaipur

#### Activities Organized under the MoU with BL Kashyap

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### A REPORT ON FACULTY INDUSTRIAL TRAINING

**TITLE AND DURATION:** Commercial Project-Oxygen Park, Noida, June 06-08, 2019

**SPONSORS & SUPPORTERS:** MoU - PCE and BL Kashyap



**ORGANIZER(S):** Department of Civil Engineering, Poornima College of Engineering, Jaipur.

#### About the Training

This training program for faculty member conducted, as per the MoU signed between Poornima College of Engineering, Jaipur and B.L. Kashyap & Sons. Ltd., New Delhi for Channels communication and co-operations. The main objective of this training to give a platform to faculty members to learn working on construction site, so it can be transferred to students through teaching by the faculty member.

#### About company

B. L. Kashyap and Sons Ltd. (BLK) has firmly established itself as one of the pre-eminent Construction, Infrastructure and Civil Engineering companies with a pan India presence. The company got listed on the stock exchange in 2006.

- In the year **1998**, BLK built Wild Flower Hall, an Oberoi Hotel project in Kufri, Himachal Pradesh which is 8250 feet above sea level
- BLK constructed Park Hyatt Goa Resort & Spa, Goa, in **2002**. This project is the first Park Hyatt in India
- On **17th March 2006**, the Company entered the Capital Market
- IFFCO Sadan Saket, Delhi, completed in the year **2006**, was BLK's 1st Turnkey Office Building Construction
- Select City Walk, Saket, Delhi, built by BLK in **2007** was awarded the Retail Mall of the Decade in **2016** by CNBC Awaz. It also received the Real Estate Award in **2016**, Mall of the

Year **2012, 2015 & 2016** – Star Retail Award

- The Airport Terminal T1 D building in IGI Airport, Delhi was built by BLK in **2009**
- The Via duct project for DMRC, which was the first major Design-Build, Precast / Prestressed elevated rail track was built by BLK in **2011**
- Embassy Tech Village at over 28.36 lakh sqft, is built by BLK on outer ring road, Bengaluru. It was handed over in just 15 months and is the largest Composite Steel Development in India.
- Hines World Trade Tower, Gurgaon, Haryana – Turnkey office Development was handed over in 18 months (inclusive of all finishing & services). It received the Best Office & Business Development Asia, MIPIM Asia Award in **2013**
- BLK built a Green Factory for Hero MotoCorp Ltd. In Neemrana, Rajasthan in 1 year with 5.5 MW Solar Panels on Roof, Vegetable Cultivation on Roof as CSR and received Platinum Rating from the Indian Green Building Council

### **About Project**

Oxygen Business Park is an IT/ITeS SEZ building in Sector 144 Noida Greater Noida Expressway, which houses Fortune 500 companies. Metro connectivity is approx. 17 km away via Botanical Garden Metro Station. There are 5-star hotels as well as malls and hospitals are within a 12-14 km radius and good connectivity by road and metro to all the major micro-markets of Delhi NCR.

Project name: Oxygen Business Park - Phase 1 - Tower B

Locality: Sector – 144, City Noida, U.P.

Storey: 8 (G+7)

Typical floor area 31,147 sqft

Total area 249,173 sqft

Main contractor: Synergia Pvt. Ltd.

Civil work Contractor: B.L. Kashyap and sons Pvt. Ltd.



### About Industrial training Learning

Mr. Divya Vishnoi visited the site for learning about the construction work on site. He was there for three days (6 June, 2019- 8 June, 2019) from 9:00 a.m. to 7:00 p.m. on site to learning about challenges faced during construction work.

He interacted with project head and Mr. Sarvjeet Singh (Project Manager). They assign Mr. Ashok Sharma (Project Technical Manager) for us.

### Materials:

- a) Cement
- b) Sand
- c) Coarse Aggregate
- d) Water
- e) ACC blocks
- f) Glass Panes
- g) Granite, Marble
- h) Reinforcement

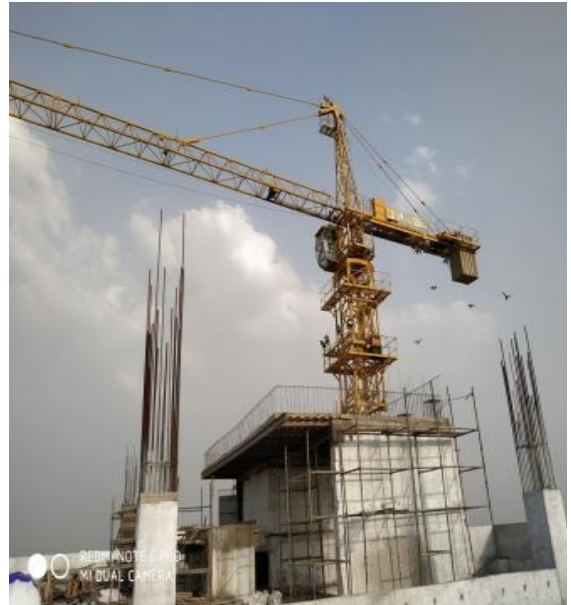


- i) PVC pipe
- j) Plumbing fixtures
- k) Super plasticizers
- l) Paver blocks
- m) P.O.P. and many more.



### **Equipment:**

- a) Loader
- b) J.C.B.
- c) Tower Crane
- d) Driller
- e) Marble Cutter
- f) Lathe machine
- g) Pipe bending machine
- h) Welding machine and many more.



### RMC batching plant:

The production of concrete was done on site by RMC plant. The plant was having 0.5 cubic meter capacity.





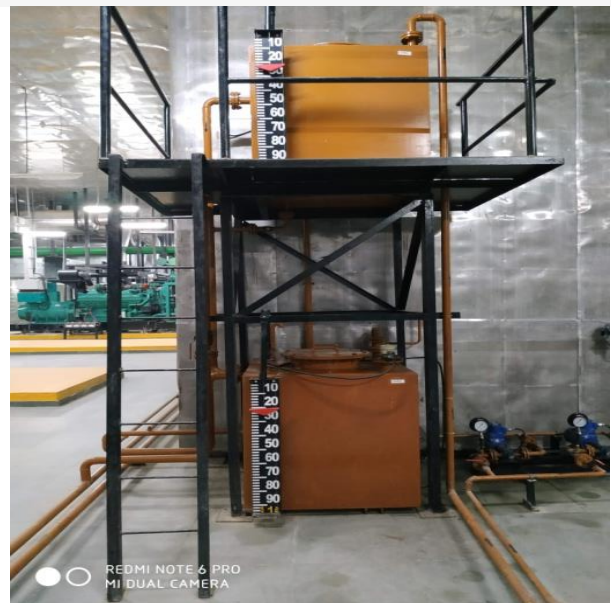
### A.C. Chillers

A chiller is a machine that removes heat from a liquid via a vapor-compression or absorption refrigeration cycle. This liquid can then be circulated through a heat exchanger to cool equipment, or another process stream (such as air or process water). There was **5 chillers** established and **2 chillers** was proposed for 3 towers.



### Diesel Generator

A **diesel generator** (also known as diesel genset) is the combination of a diesel engine with an electric generator (often an alternator) to generate electrical energy. This is a specific case of engine-generator. There was **5 D.G.** established and **2 D.G.** was proposed for 3 towers.



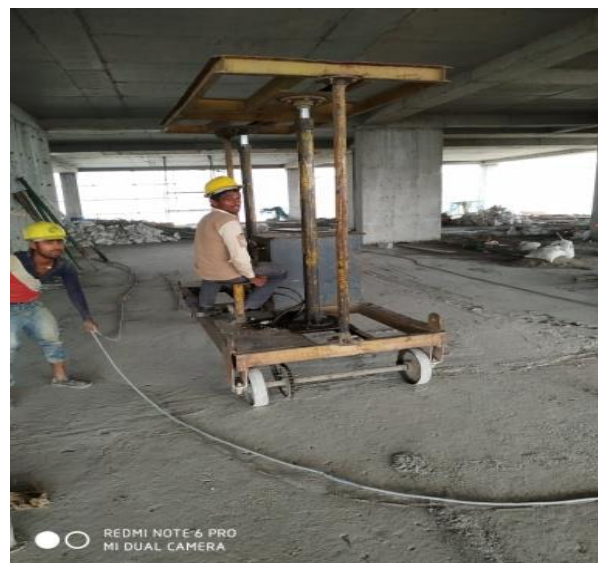
### Multilevel parking

Multi-level Parking systems for some time have provided relief since they come with a number of advantages - optimal utilisation of space, lower maintenance and operational cost, lower construction cost (owing to the prefabrication), secure and environment-friendly nature (the underground implementation renders the outdoor space free for landscaping), comfortable for the drivers, cost saving for builders by saving height or depth.



### Shuttering

Table Formwork is a kind of Form work specializing in floor concreting and it is widely used in high building and skyscraper, multilayer industrial factory building, substructure, etc. The Table Formwork has simple structure, it is easy to assemble and disassemble and can be reusable.





### Surepave:

SurePave is a plastic cellular paving grid for reinforcing grass or gravel. These pavers offer an attractive alternative to concrete and asphalt pavements and concrete grass stabilisation products. Hard impermeable surfaces such as; concrete/tar seal driveways, roads, roofs, and footpaths cannot soak up storm water. SurePave is an ideal solution for soaking up storm water in many of these applications.

Each SurePave panel is 816mm x 612mm (half a m<sup>2</sup>), so two pavers are 1m<sup>2</sup> which makes for easy calculation!

Ideal for:

Grassed lawn areas used for parking

Grass, gravel and decorative stone driveways

Garden paths and patio areas in decorative stone

Schools

Golf courses

Walking/cycling tracks

Boat & Trailer Parks

Caravan and Camper Van parks

Industrial yards

Tree root protection

Any areas where potholes and rutting are an issue

Any area that has a requirement to be permeable

- Super strong 3.5mm wall thickness to handle traffic and turning
- Able to withstand 700 tonnes per m<sup>2</sup> when filled
- Panels interlock securely to reduce long-term creep
- UV stabilised polypropylene for permanent strength and durability
- 100% Recycled plastic and 100% recyclable



### Problem faced during training:

1. Many labours forget their safety things. No labour allowed on site due to safety concern.
2. One wall was needed to dismantle due to updating in plan.
3. The opening height of lift was left as per plan, but the vendor require to 5 cm more, so they manage on site.
4. One steel beam was deflect due to over load, so there was provide a column for support beyond the plan.

### Outcomes:

1. Learning about handling the labour.
2. Learning about how to work under pressure.
3. How to maintain the quality work under pressure.
4. Learn about the new equipments used for fast construction work.
5. Experience of construction of Vacuum dewatering slab.

