

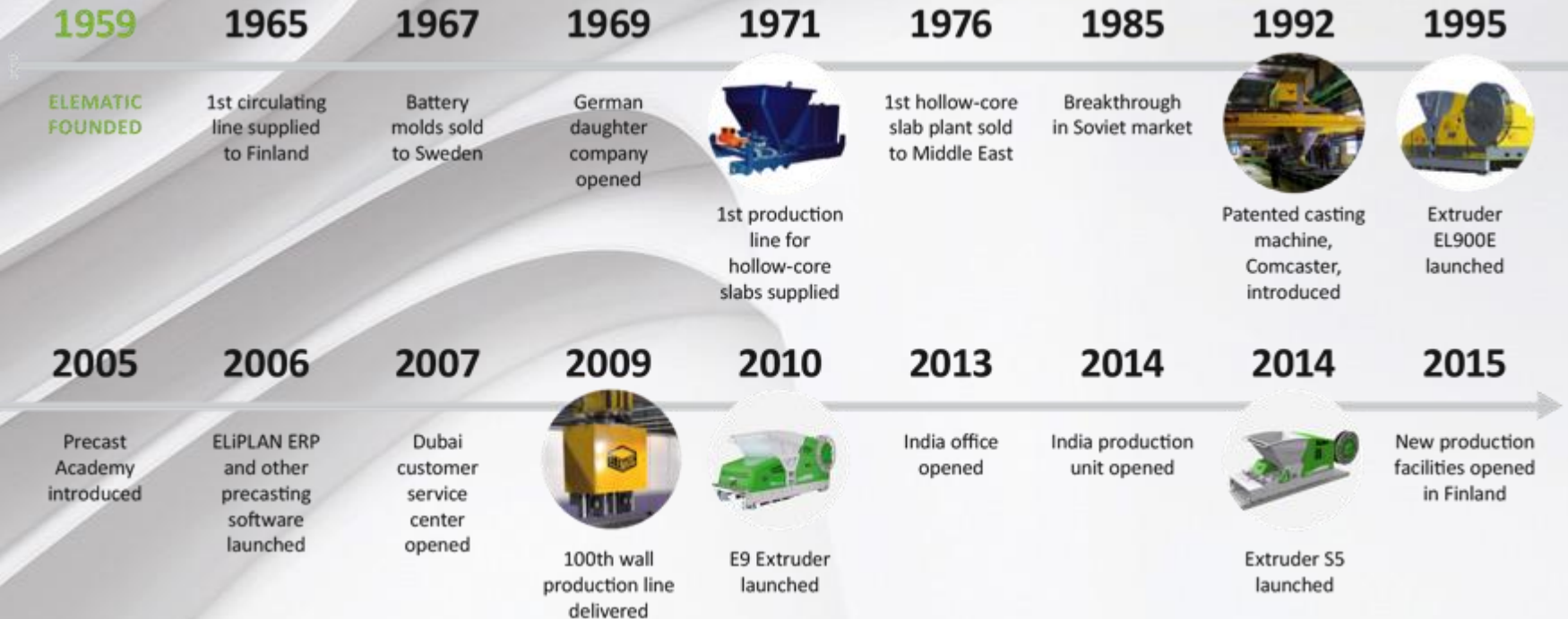


PRECAST TECHNOLOGY- INTRODUCTION AND IMPLEMENTATION IN INDIA

SMART EVOLUTION



Where did we come from?



The only one-stop-supplier in the precast concrete industry

- Delivering anything from a single machine or production line to a complete plant for any precast product
- World-leading technology, knowhow, process excellence and software
- The most extensive customer services in the market
- **Setting up World's largest precast plant at Iraq producing 8,300 sq.mt. of walls and slabs per day.**
- Link - <https://www.youtube.com/watch?v=ScIT0CPqYVA>

Global market share



Hollow-core slab technology 60%

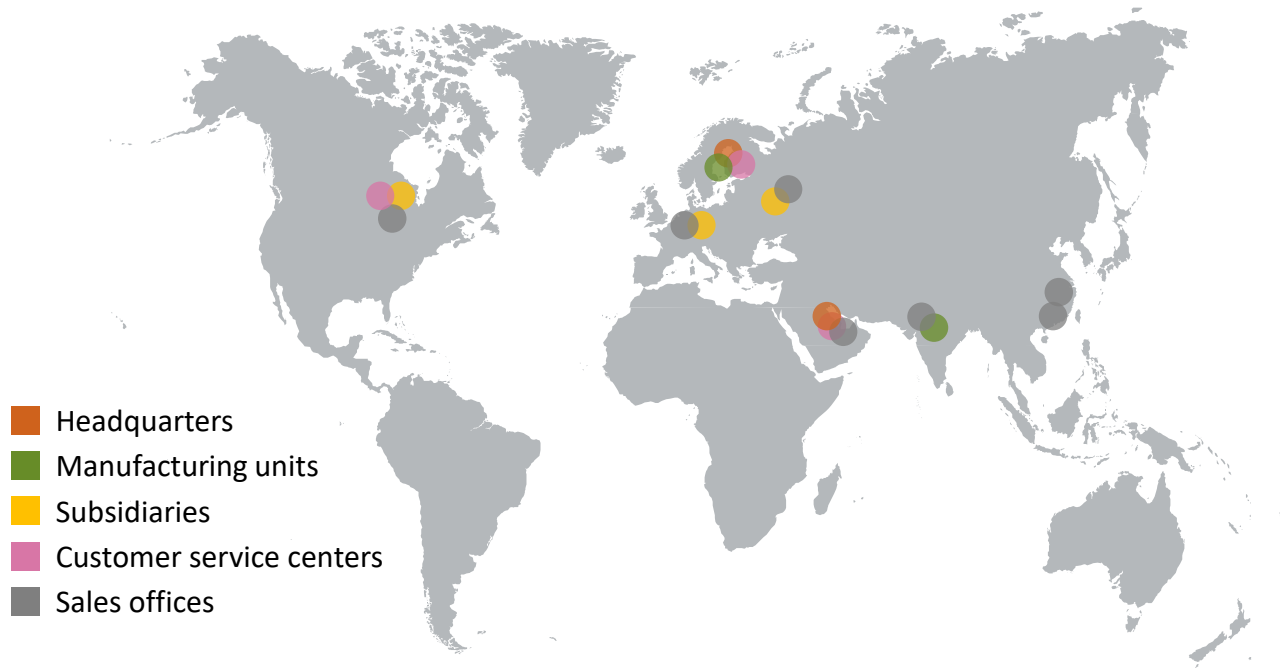
■ Elematic
■ Others



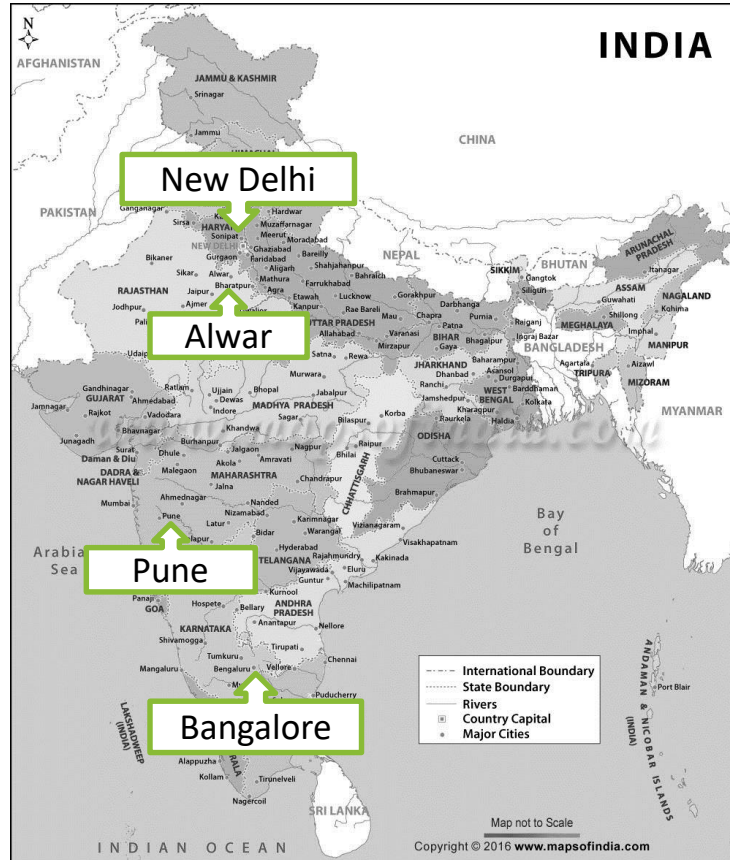
All precast concrete production technologies 40%

■ Elematic
■ Others

Global Yet Local – Elematic Presense



Elematic Setup in India



Elematic is present in New Delhi, Alwar (Raj.), Pune and Bangalore

New Delhi –

- Marketing Office
- Service Team

Alwar, Rajasthan –

- Manufacturing Plant
- Spare Parts

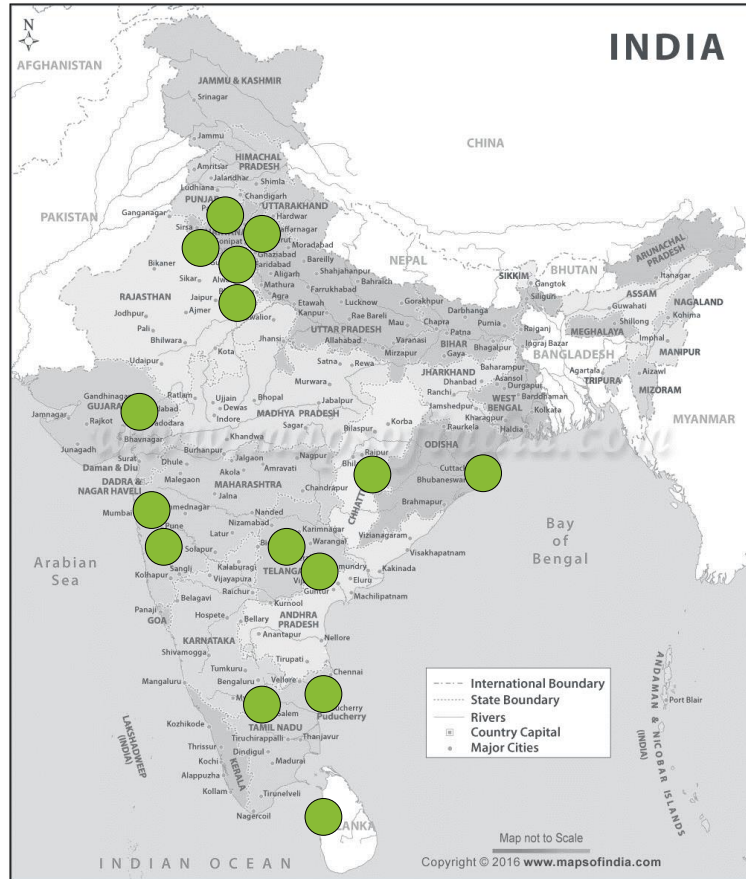
Pune, Maharashtra

- Structural Design Office
- Service Team

Bangalore –

- Marketing Office

Elematic Precast Plant locations in India



ELEMATIC PLANTS IN INDIA

North India

- Delhi
- UP (Greater Noida), Lucknow
- Haryana (Manesar, Sonipat)
- Rajasthan (Khushkhera, Jaipur)

West India

- Ahmedabad
- Mumbai
- Pune

South India

- Hyderabad
- Vijaywada
- Chennai
- Krishnagiri (Tamil Nadu)

East India

- Raipur
- Bhubaneshwar

Additionally, Elematic has setup two precast plants in Sri Lanka

Elematic Plant and Machinery deliveries in India



4 x Circulation Lines



10 x Hollow Core Lines



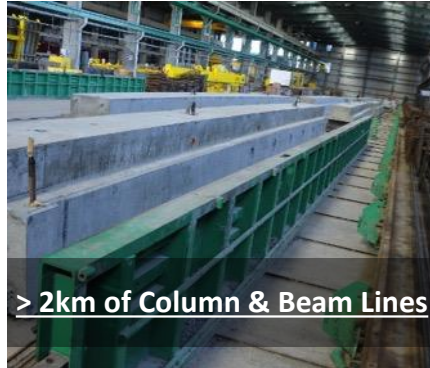
4 x Battery Moulds



2 x KVT Lines



3 x Acotec (Partition Wall) Lines



> 2km of Column & Beam Lines



10 x Staircase Moulds



>150 nos. Mechanical / Hydraulic Tilting Tables

Some of our key customers

SKANSKA

YIT

ANTONIO
Basso

Betoniluoma Oy

CONSOLIS

VME
precast
Moulding the Future

الفنار
alfanar

Spaencom

GRH

ergon

ARA

KP1

OBERNDORFER

PARMA
Enemän kuin betonia

>V
Generale Prefabbricati

structo

HIGH CONCRETE
GROUP Ltd.

Oldcastle

مجموعة بن لادن السعودية
SAUDI BINLADIN GROUP

STRESSCON
Architectural and Structural Precast Concrete
An Refcon Company

precon
Hortijones Prefabricados de Catalunya S.L.

GOLDBECK
PREFABETON S.R.L.

ELSA

Block
Berge
VI LAR ANSVAR

NSL
Eastern Pretch

CASSOL
PRÉ-FABRICADOS

РБ

УМР
УРАЛМЕТАЛЛУРГРЕМОНТ
Группа компаний

BPC
Group

SAMSUNG

株式会社富士ビー・エス

GCC
Grupo Cementos de Chihuahua

HYUNDAI
ENGINEERING & CONSTRUCTION

TRAY UCHIR
Construction Company

betonson

FABUD WKB S.A.

DW SYSTEMBAU

PRETERSA
PRENAVISA

Spenncon

КРОСТ
концерн

БАРРИКАДА
в основе большого города

DDT KONSTRKT, INC.
CONTRACTOR • ENGINEERS

KASTELL
MASSIVHAUS

Key customers in India and Sri Lanka



BISMAYAH – LARGEST PRECAST HOUSING PROJECT IN THE WORLD

Bismayah New City Project

- Bismayah is a new city being constructed 10km from Baghdad in Iraq.
- This city will house 600,000 residents and is an \$8 billion project.
- This will include construction of 1,000 towers of 10 story each.
- 100% precast buildings, utilising precast sandwich walls, hollow core slabs, staircases and other special precast elements.

Bird's Eye View



Project



3 x Battery Mould
Plants

4 x Circulation Wall
Lines

Battery wall plant

4 x Prestressed Hollow
Core Plants

Facts in Brief

Housing

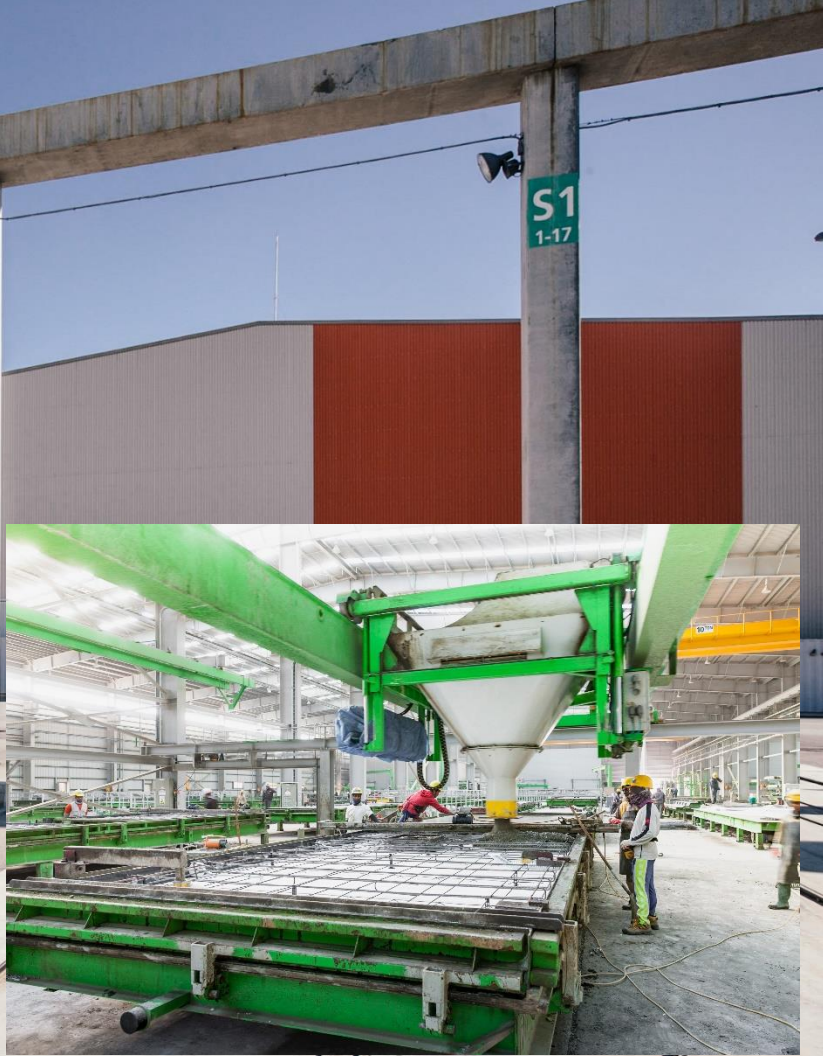
Capacity (wall)	8 500 m2 / day
Capacity (floor)	8 500 m2 / day
Housing Units	100 000
Inhabitants	600 000
Finish design	All houses

[Video](#)









BISMAYAH CONSTRUCTION SITE PICTURES











PROJECT REFERENCES: INDIA

Affordable Housing : DDA, New Delhi



Project: Affordable Housing, Delhi Development Authority

Contractor: BG Shirke

Project Details –

- **100,000 apartments, (70,000 completed)**
- Construction time 6 years
- G+5, G+7 and G+12, G+19, buildings
- **Currently 45 apartments per day under construction**

Elematic Machines –

- Circulation Line for walls and slabs
- Chamber for accelerated curing
- Column casting machine
- Automated Concrete Distribution

Other Services –

- Monthly service and maintenance contract
- Deputation of electrical and mechanical maintenance engineers.

LARGEST PRECAST AFFORDABLE HOUSING PROJECT IN INDIA



70,000 HOUSING UNITS COMPLETED WITH PRECAST CONCRETE TECHNOLOGY









Naya Raipur Development Authority
Contractor: BSBK Construction

Project: EWS / LIG Housing

Contractor: BSBK Group

Project Details –

- ~6200 apartments,
- Construction time 3 years
- G+3, G+8 buildings

Elematic Machines –

- KVT Line for walls
- Mechanical tilting tables for special elements
- Long line for and hollowcore slabs

Other Services –

- Installation of precast plant
- Annual maintenance contract



An aerial photograph of a massive residential development, the Maharashtra Police Mega City, located in Lohgaon, Pune. The complex consists of numerous high-rise apartment buildings arranged in a grid-like pattern, surrounded by lush green trees and a large open field. In the background, rolling hills and mountains are visible under a cloudy sky.

**WELCOME TO
MAHARASHTRA POLICE MEGA CITY,
LOHGAON, PUNE.**

Police Housing : MPMC, Pune- Under construction



Project: Maharashtra Police Mega City, Pune
Contractor: BE Billimoaria

Project Details –

- 4.5 M sq.ft.
- G+14 buildings, 60 towers
- 1RK, 1BHK, 2BHK, 3BHK, 3.5/4.5 BHK Apartments

Elematic Machines –

- Battery mould and tilting tables for walls
- Long line for prestressed slab
- Acotect partition walls

Other Services –

- Complete project engineering and PMC services
- Installation of precast plant and commissioning
- Production and installation supervision
- Annual maintenance agreement



Affordable Housing, Hyderabad



Project: Janapriya Lake Front, Hyderabad

Owner: Janapriya Engineers Syndicate

Website: <http://janapriyalakefront.com/>

Project Details –

- Total 1.2 mn sqft develop
- 2 Basement + G + 10 Storey
- Three towers constructed and occupied

Elematic Machines –

- Battery Mould for production of load bearing walls with Aluminium formwork and magnets.

Other Services –

- Structural design of buildings



Jindal : Student Housing, OP Jindal Global University, Sonipat

Student Housing, Sonipat



Project: G+5 Student Housing Project

Owner: Jindal Realty Pvt. Ltd.

Project Details –

- 2 buildings of 85,000 sqft each and one building of 125,000 sqft
- Construction time per building approx. 8 weeks
- Finishing time per building approx. 8-10 weeks

Elematic Machines –

- Casting Beds, Slipformer and other machines for Hollow Core Slab
- Casting Beds with formwork for Columns and Beams
- Battery Mould with Cold Shutters for LB Walls
- Staircase Moulds

Other Services –

- Factory design and installation of machines.
- Structural Design of all buildings including preparation of shop drawings.
- Supervision and training for production and installation of precast elements.

R&D Center, Manesar



Project: Research & Development Center, Manesar

Owners: Nestlé

Project Details –

- 15,000 sqmt research and development facility
- Column Beam Frame, Prestressed Slabs and Shear Walls.
- Loading of 15.0 kN/sq.m.
- Construction time 11 months, project completed in 2012.

Elematic Machines –

- Casting beds with Sliformer and other machines.
- Column and Beam Mould

Other Services –

- Complete structural design of the building
- Deputation of supervisors and engineers at project site.





**Meitra Hospital : Calicut – Awarded ICI-Ultratech 2018
Award – Outstanding Concrete Structure**

250 Bed Super Speciality Hospital



Owner: The KEF Company

Project Details –

- 250 bed hospital, 25,000 sqmt of bua
- Hospital is under construction and will be fully operational by March 2016.

Elematic Machines –

- Casting Beds, Extruder and other machines for Hollow Core Slab
- Casting Beds with formwork for Columns and Beams
- Table Moulds for LB Walls and Graphic Concrete Panels
- Staircase Moulds

Other Services –

- Factory design and installation of machines.
- Structural Design of all buildings including preparation of shop drawings.
- Supervision and training for production and installation of precast elements.

Other Precast structures references in India



COMMERCIAL BUILDINGS



RESIDENTIAL BUILDINGS (HIGH RISE & LOW RISE)



INDUSTRIAL BUILDINGS



SPORT ARENA



PARKING



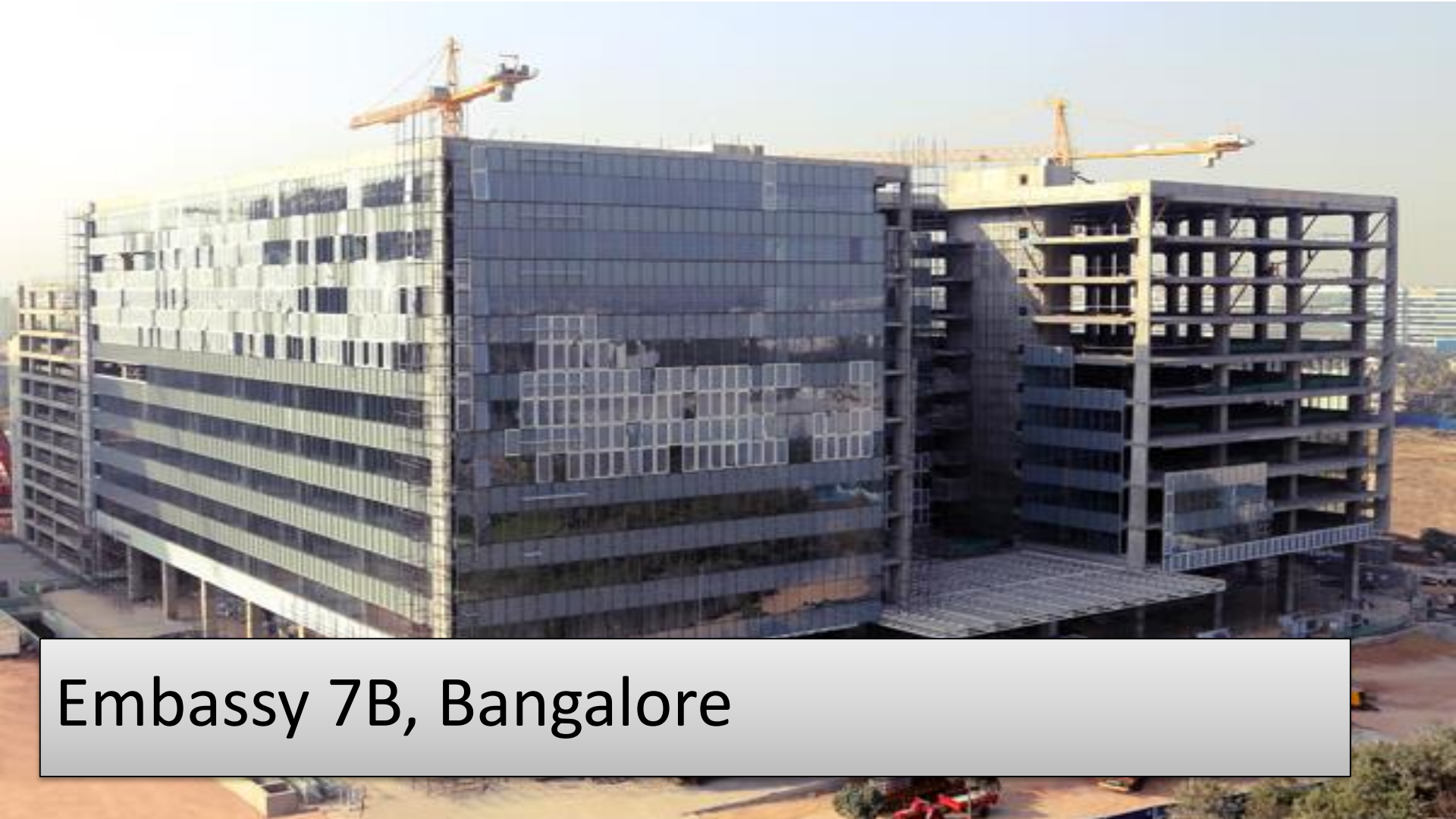
OTHER APPLICATIONS

- WATER TANKS & STP
- BOUNDARY WALL
- FOOT OVER BRIDGE
- INDCAST





IBIS Hotel, Chennai



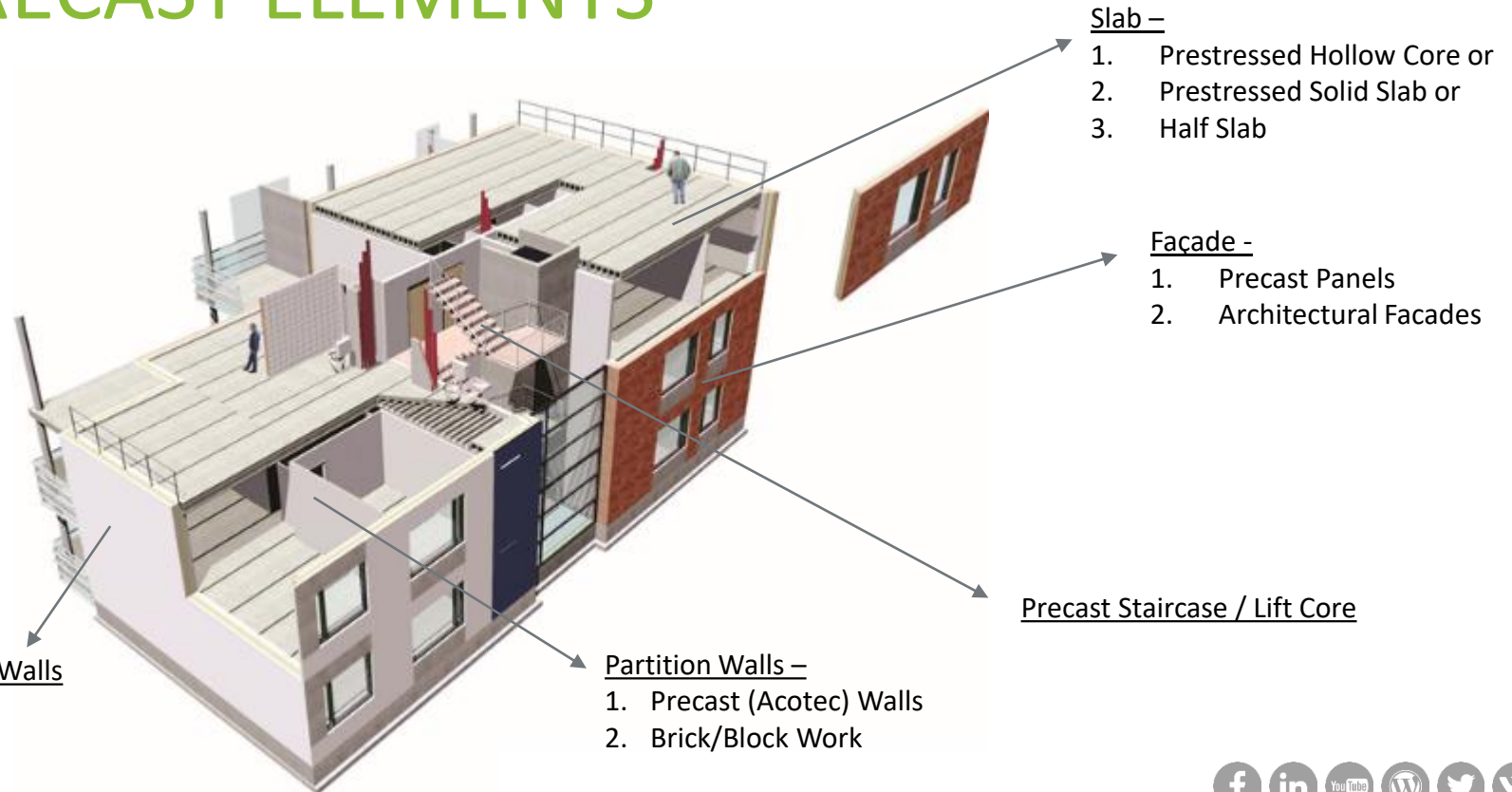
Embassy 7B, Bangalore



197 Indira Canteens, Karnataka

PRECAST ELEMENTS

PRECAST ELEMENTS



Staircases





Precast Columns with Corbels



Precast Beams (Prestressed or Reinforced)



Prestressed Slab (Hollow Core & Solid)





Load Bearing Walls & Facades





Different Surface Finishes



Coloured Concrete



Graphic Concrete



TIME FOR DISCUSSIONS

www.elematic.com

