PRECAST TECHNOLOGY- INTRODUCTION AND IMPLEMENTATION IN INDIA
Where did we come from?

**1959**
- **ELEMATIC** FOUNDED
- 1st circulating line supplied to Finland

**1965**
- Battery molds sold to Sweden

**1967**
- German daughter company opened

**1969**
- 1st production line for hollow-core slabs supplied

**1971**
- 1st hollow-core slab plant sold to Middle East

**1976**
- Breakthrough in Soviet market

**1985**
- Patented casting machine, Comcaster, introduced

**1992**
- Extruder EL900E launched

**1995**
- 

**2005**
- Precast Academy introduced

**2006**
- ELIPLAN ERP and other precasting software launched

**2007**
- Dubai customer service center opened

**2009**
- 100th wall production line delivered

**2010**
- E9 Extruder launched

**2013**
- India office opened

**2014**
- India production unit opened

**2014**
- New production facilities opened in Finland

**2015**
- Extruder S5 launched
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 Presence

- Headquarters
- Manufacturing units
- Subsidiaries
- Customer service centers
- Sales offices
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

Elematic Plant and Machinery deliveries in India
Some of our key customers
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

- 4 x Circulation Wall Lines
- 3 x Battery Mould Plants
- Battery wall plant
- 4 x Prestressed Hollow Core Plants
## Facts in Brief

### Housing

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (wall)</td>
<td>8 500 m² / day</td>
</tr>
<tr>
<td>Capacity (floor)</td>
<td>8 500 m² / day</td>
</tr>
<tr>
<td>Housing Units</td>
<td>100 000</td>
</tr>
<tr>
<td>Inhabitants</td>
<td>600 000</td>
</tr>
<tr>
<td>Finish design</td>
<td>All houses</td>
</tr>
</tbody>
</table>

[Video](link)
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
WELCOME TO
MAHARASHTRA POLICE MEGA CITY,
LOHGAON, PUNE.
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.
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.
Meittra 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
Embassy 7B, Bangalore
197 Indira Canteens, Karnataka
PRECAST ELEMENTS
PRECAST ELEMENTS

Slab –
1. Prestressed Hollow Core or
2. Prestressed Solid Slab or
3. Half Slab

Facade -
1. Precast Panels
2. Architectural Facades

Precast Staircase / Lift Core

Partition Walls –
1. Precast (Acotec) Walls
2. Brick/Block Work

Load Bearing Walls
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