



Sustainable Inventions for Building Future



Implementing Advanced Technologies in Construction Industry



Superior Quality

Speedy Execution

Cost-effective

_ong Spans

Better Results

Precast Prestressed Technology

The rapid growth and development of urban centers call for shorter timelines of construction at a competitive cost by implementing proven technologies while ensuring high standards and uniformity in quality. These are the needs of the hour which can be effectively met by Precast Prestressed Technology.

Precast and Prestressed concrete technology involves the Industrial process of casting structural & architectural concrete elements, effectively using pretensioned tendons in a stationary profile mold and long casting bed, under controlled environment and quality standards, cured, transported to the construction site and erected into place.

Prestressing is a combination of concrete and high strength prestressing strands. Prestressed tendons are used to provide a clamping load which produces a compressive stress that offsets the tensile stress that the concrete compression member would otherwise experience due to a bending load. Due to internal structural mechanics resulting from prestressing, prestressed concrete greatly enhances the structural resilience and load bearing capacity of precast elements.

This technology enables production of longer span floor-slabs viz., T Slabs, Hollow Core Slabs, Solid Slabs, etc., and beams at required depths, which is a limitation in traditional reinforced concrete methods. This technology is widely applied in Buildings, Metro Rail Projects, Tunnels, Bridges/Flyovers and Underpass construction.

Precast Prestressed Concrete has emerged as a revolutionary technology and methodology in India recently, while it is well developed and has been under implementation for decades in Europe, GCC, and USA.



Office Tower, 10-storey building, tallest precast building, Hyderabad, India.



Multli Level Parking, 7-storey, Bhubaneshwar, India

Advantages of Precast Technology

Quality

Precast technology, by virtue of the industrial process involvement of casting under controlled circumstances, adheres to the highest standards of quality control.

Speed and Strength

Precast concrete construction does jobs sooner. Depending on size and site conditions, flooring for a number of units can be laid in a single day. Use of higher grade concrete and steel than conventional makes it structurally superior.

Long life and Low maintenance

Research has proven that precast elements can ensure more than a 100 year life cycle which reduces the life cycle cost of projects. Precast technology assures uniform quality and eliminates leakage and cracks thereby reducing maintenance costs.

Cost Effective

Early possession, slabs and beams with longer spans at lower depths, lower structure weight, efficient use of resources with minimal wastage and shorter timelines, all contribute to an economic solution.

Weather and Fire resistant

Precast concrete is an all-weather construction material, equally effective in regions with freezing or scorching temperatures. It is also non-combustible and does not melt, eliminating the need for additional fire proofing works.

Energy efficiency

Prestressed concrete components can improve the thermal storage potential of a building. It effectively conserves energy required for heating and cooling.

Clean and Safe site

No shuttering, scaffolding, material procurement and inventory needed on-site. Clutter free and safer site.

Long spans

Prestressing allows for casting elements longer than those achievable by conventional systems. A typical 300 mm Hollow core Slab can span up to 16 m and T slabs up to 22m without intermediate columns and beams.

Versatility of Design

Precast provides a structural platform which will give the architects and structural engineers greater freedom in designing virtually any layout.

Acoustic Performance

High thermal mass of Precast combined with sound insulation reduces noise and provides an effective sound barrier between roads and urban noises









About PRECA

PRECA Solutions India Private Ltd, Hyderabad, is one of the pioneers to introduce Precast Prestressed Concrete Construction technology to India. PRECA is an International Joint Venture between Indian, Israeli and African techno-commercial partners.

PRECA is engaged in the business of providing turnkey civil engineering solutions across all segments of construction including Commercial, Hospitals, Industrial, Institutional, Residential, Multiplex theatres, Multilevel Parking and Infrastructure. PRECA has its State-of-the Art European technology equipped precast factories at Hyderabad & Bhubaneshwar and over last 5 years has successfully delivered over 65 challenging projects serving reputed clients such as Infosys, NETAPP, Cadbury, IIT-Hyd, GMR, Apollo and such reputed organizations.

PRECA has the unique capabilities for civil engineering projects by offering Quality, Innovative & Economic solutions at faster timelines in comparison to traditional construction methods.

Vision & Mission

Quality & Safety

Our Team

Vision: We are committed to delivering turnkey civil engineering solutions using state-of-the-art technology.

Mission: Adopting innovative, sustainable and scalable solutions in the construction sector for the benefit of customers through conformance of global standards.

PRECA follows rigorous quality control standards & procedures, also aiming at continual improvement and innovation. We implement quality management system at various levels of product life cycle.

PRECA provides a healthy and safe environment to the workforce and also to ensures compliance to applicable statutory legislations, regulations and contractual requirements.

PRECA has a team of 400 plus employees at various levels of expertise across a variety of profiles.

PRECA has a technical team with global experience of having engineered, designed, manufactured and executed large scale civil engineering projects in countries of Israel and Gulf regions.

Promoters



Satish Gottipati



Dr. Tunji Olowolafe



Uri Kertes

Our Delivery Model

Turnkey Civil Engineering Solutions from Design to Delivery

Evaluate

needs

Evaluate preliminary design for the most efficient solution to suit the client

Our Strengths

Our team of experts are our strength.

Our unique strength is of Inhouse Engineering & Design team. The team compose of expats & foreign returned Indians with high degree of qualification and vast experience in precast technology.

Our team of experts at every level, without any distinction of origin or culture, are our most valuable assets.

PMC

Dedicated professional team for monitoring & controlling of the project from start to end

Manufacture Under rigorous

quality standards as per schedules

Erection

Carry out complete erection of building



Services & Finishes Undertake building services & finishes work . Deliver the complete building to use

PRECA – Overview



Turnkey Engineering
Solutions for Civil
Structures from Design to
Delivery



State-of-the-Art Precast Manufacturing facilities equipped with European Technology



PRECAst facilities in
Hyderabad
& Bhubaneswar,
Upcoming in Vijayawada



In-house
Engineering & Design
Team - PRECAST
Expertise



Specialized in Precast Prestressed Long Span Construction



ISO 9001:2015 certified Precast Company Pioneers in introducing
Precast Prestressed
Technology to Indian
Construction Industry



International Joint Venture – Indian, Israeli and African Partners



Professional and Experienced team with strength more than 600 in number



Delivered complex and challenging projects across all segments of construction



Preferred Precast Solutions provider for various Central & State Govt Organisations



ICI Membership IGBC Material Manufacturer



PRECA through human life cycle





PRECA's Architectural and Structural Elements











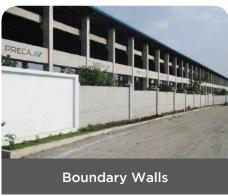




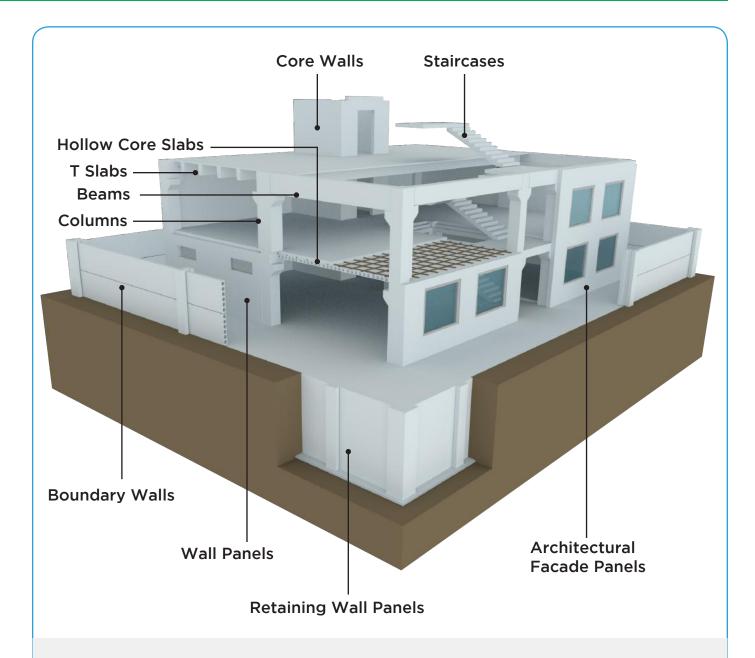










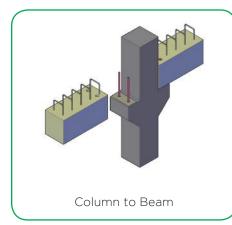


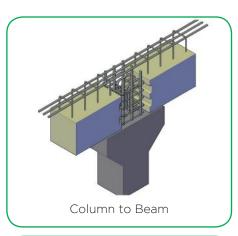
Design Standards & Codes

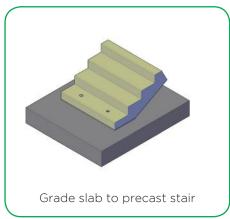
The structural analysis and design of PRECAs building structures will adopt the requirements specified in the National Building Code, local regulations and relevant Indian Standard codes (latest revisions) listed herein

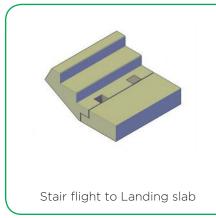
- IS: 875 1987 Part I: Code of practice for Unit Weights of Materials
- IS: 875 1987 Part II: Code of practice for Live Loads
- IS: 875 1987 Part III: Code of practice for Wind Loads
- IS: 875 1987 Part V: Code of practice Special Loads & Load combinations
- IS: 456 2000: Code of practice for Plain and Reinforced Concrete
- IS: 1893 2016: Criteria for Earthquake Resistant Design of Structures
- SP 16: Design Aid for Reinforced Concrete to IS: 456
- ACI: 318: Building Code Requirements for Structural Concrete (ACI 318M-08)
- 7th Edition: PCI Design Handbook

Precast Connection Details

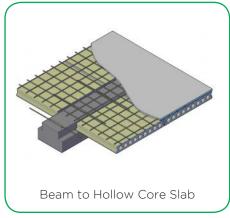


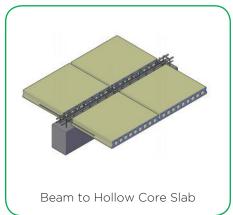


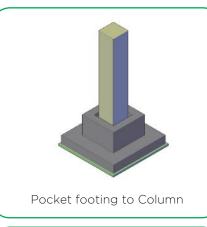






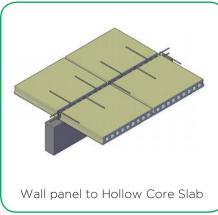


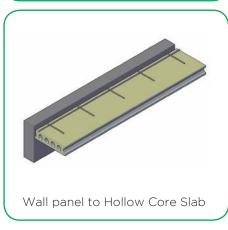












Production Facilities

PRECA has state-of-the-art Prestressed Precast factories at Hyderabad and Bhubaneshwar.

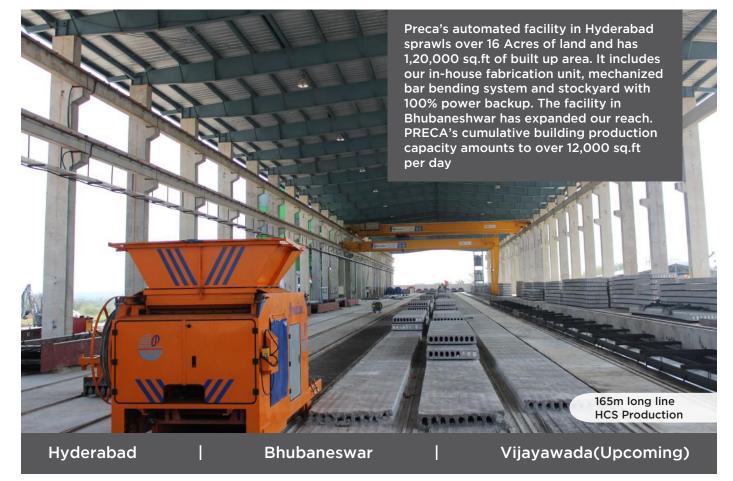
PRECA's facilities are run by the best in class technology from Europe. Our main technology partnership is with Prensoland (Spain), Bianchi (Italy) and Moldtech (Spain), which are Internationally reputed manufactures of precast equipment and automated moulds.

PRECA's third facility is upcoming in Vijayawada, near the new capital region of Andhra Pradesh will be automated and will further boost our capability and mark us as one of the leaders of the industry.









Awards & Recognition

We at Preca, strive to ensure that our products are impeccable and service is top-notch. Our work has been well recognized since our earliest stages of inception and we strive everyday to perform beyond the standards of the industry. We derive immense encouragement from the recognition of our efforts towards making Precast Technology a more prevalent form of construction in our country.





- Best Professionally Managed Company from Construction Sector, Achievement Award for Best Construction Projects (Social and Health Infrastructure) and Achievement Award for Best Pre-Engineered Building at the prestigious 9th Vishwakarma Awards, 2017 organised by Construction Industry Development Council (CIDC)
- ICI UltraTech Award for Well Built Residential Building 2015 in Hyderabad District
- Best in Class Manufacturing Green Manufacturing Award in National Quality Excellence Awards 2013 from World CSR Day and Stars of the Industry, USA
- IGBC Material Manufacturer, ICI, CII and PSI Membership

We regularly participate in Annual Conferences, Technology Summits, Trade shows, Workshops and Seminars with various organisations; invite and interact with them at our facilities & projects and strive to spread awareness about the superior form of construction that is precast.





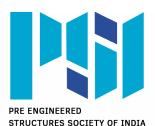








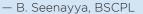
Indian Concrete Institute New Delhi Centre



Our Clients

Within a short span of our presence in the sector, we are proud to have a good roster of satisfied clients from reputed organizations working across various sectors of the construction industry. We've delivered every project with utmost dedication and care which has led most of our clients to give us the opportunity to serve them multiple times. This just goes to prove the efficiency and reliability of our organization.

"It is remarkable to have erected a 24,000 sq. ft. structure in a mere 3 weeks' time which goes to show the immense advantage that precast technology offers through rapid and easy installation. The overall quality of the structure is unparalleled and has surely set an example in the industry of real estate construction. The effort has paid off in the form of winning the ICI - UltraTech Award for "Well Built Residential Building" for which we congratulate you. It was pleasure to work with you on such an accomplishment."







"We have gone with PRECA's Prestressed Hollow core slabs and beams system as precast concrete structure can be left unpainted without damage from elements. They have done excellent work for our Wagon Loading Shed and their hard work and dedication has really helped us to finish the job on time."

- Vasudeva Reddy, VP (Works), Sagar Cements

"PRECA has completed the work within the Scheduled time and the quality of work is good."

- Brig. K. Chakravarti, Chief Projects Officer, Apollo Hospitals





"The ability to design and execute large span beams and slabs with minimum possible depths and clean soffits, at a rapid pace of construction executed with highest level of quality, all within affordable cost. The whole of project is made with remarkable ease with minimum pollution, disturbance to the surrounding and minimum requirement of resources like water, power and technical staff at the site.."

Syed Bashrath Ali, TCA Consultants Pvt Ltd.

- Ramky Group
- NATCO Pharma
- KMV Projects
- Phoenix Group
- LV Prasad Hospital
- L & W Construction
- L & T Construction
- Cadbury India
- Infosys Ltd
- · Sai Life Sciences Ltd
- Nizam Club
- Aurobindo Realty
- ICICI Bank
- Raheja Developers
- Srikrishna Pharma
- Turbo Aviation Group
- IIT Hyderabad
- HMDA

- Govt. of AP
- CPWD
- ECIL
- APCRDA
- TSGENCO
- TSTRANSCO





PRE-STRESSED CONCRETE SOLUTIONS An ISO 9001:2015 COMPANY



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Bhubaneswar

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