

"Sustainable Solutions in Concrete Technology-A Boon for Indian Constructions"





"PRECA's vision is, to build a sustainable business in India by bringing various proven technologies particularly in precast and pre stressed concrete elements to improve the construction methodology which would bring efficiency in construction industry"



- Over the years the methods of building have necessarily been dictated by the availability of suitable materials and the level of technological advancement
- Certain fundamental values however remain constant, need to have a structure that stands the test of time, building materials that do not rot and have the ability to resist accidental damage such as fire. Storms etc..
- Since the beginning of time man has constantly upgraded the construction methods by using better materials and better technologies
- Buildings are now developed to sustain mild earthquakes leave alone rain and heat, infrastructure such as bridges, canals etc built to take huge loads for many many years.
- The change for the better has always been the way forward, with new technologies and innovative methods have made construction complex but yet quick and strong.
- This in turn has led to the development of structures that would stand tall for years to come.
- PRECA has been quick in realizing this need of the market and desires to bring in proven technologies into India for making phenomenal returns by servicing the construction industry be it Infrastructure or the real estate sectors.



PRECA is engaged in the business of designing, manufacturing, supplying & erection of Precast and Prestressed Concrete Products of all ranges on turnkey execution, and providing solutions for executing various challenging structures using advanced and proven engineering technology.

PRECA, an International JV:

PRECA is promoted by Mr. Satish Gottipati in joint venture partnership with Europe and Africa techno-commercial partners.

The Israeli managerial expertise and technical expertise are made available to the setting up of factory and for the operations of PRECA which is one of the unique advantages of this first of its kind Precast Prestressed Concrete Products Manufacturing Company in India.



Preca delivers turnkey services from design to on-site installation

Engineering and Design Study engineering to arrive at effective structural designs and quantities

Enquire

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

Production Manufacture under rigorous quality standards as per schedules

> **Delivery** Undertake on-site delivery as per erection schedule

Erection

Carry out complete erection of precast elements, including grouting

State of the Art Production Facility





- ✓ Located at Shankarpally, near Hyderabad.
- ✓ In 13 Acres of Land
- ✓ State of the Art Production Equipment Imported from Europe.
- ✓ In-House Fabrication Unit, Laboratory & Mechanized Bar Bending System
- ✓ 60,000 Square feet Built-Up Factory
- ✓ 100 % Power Backup



In-house Teams:

- Engineering & Design Dept.
- Project Planning Dept.
- Production Depts.
- QC Dept.
- Erection Depts.
- Maintenance Depts.
- Logistics Deptartment.

SupportedbyManagementTeams,AdministrationTeams,HRDTeam,ProcurementTeam,FinanceTeametc.

Team Composition:

- Resident Foreign Technology Expert
- Foreign Returned Experienced Engineers
- Engineers with Masters
 Engineering (structural / Precast)
 Qualifications
- Decade plus experienced Engineering Experts
- Multi-Skilled and Multi-Qualified Professionals

Why **PRECA**st





High Quality & Durable

Precast concrete reinforces the quality of construction and extends the life span of a building. Research has proven that precast elements can ensure more than a 100 year life cycle thereby reducing the life cycle costs of projects. Factory-made products meaning rational and efficient manufacturing processes, skilled workers, repetition of actions, quality surveillance, etc.,



Structural Efficiency

A hollow core slab offers the ideal structural section by reducing dead weight whilst providing the maximum structural efficiency with the minimum slab depth. This provides the means if longer spans there by reducing internal load bearing walls and foundation.



Versatility of Design

Precast concrete buildings are not only functional but beautiful as well. Unlike conventional concrete developments, precast provide a structural platform which will give the architects and structural engineers greater freedom in designing virtually any layout .



Cost Effective

With long spans, columns and beams requirements are minimized which minimize costs. With hollow core pre-stressed elements, structure weight will be reduced thus foundation requirement and costs.



Rapid Construction

Precast concrete construction gets the job done sooner. The manufacturing of pre-stressed members and site preparation can proceed simultaneously. Early occupancy provides obvious benefits to the client.



Conserves Energy

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

PRECAst a solution for many challenges



Projects sizes have increased many folds	Typical project sizes have increased making it impossible for conventional methods of constructions. Large scale projects need solutions which are innovative and are much faster.
Non Availability of skilled labour	The Indian real estate and infrastructure sectors have grown many folds over the past few years but the manpower in these sectors have not grown at the same pace, making alternative methods a necessity
Cost effective solution	PreCast model of development is much more cost effective as compared to conventional development methods
Time is money	Precast methods of development are much quicker than conventional method of construction. Hence payments are received much quicker not to mention saving in interest costs.
Limited availability of centering materials	Centering material have been at a shortage . More so as the number & size of projects are increasing.
Single supplier takes many roles	In the PreCast model of development there is a single point of contact while the conventional developments model would involve centering contractors, concrete suppliers, labour contractors etc,.



Select Visuals of PRECAst Advantages









No Shuttering and Scaffolding





Safe Construction





Better Quality & Finishes





Better Site Conditions





Save Earth





Save Energy





Save Environment





Human Safety







Save Resources



Key Applications

Infrastructure:

Pre Cast Elements have been proven to be an effective ingredient in undertaking large scale projects. Some key areas have been mentioned below.



Roads



Airports



Dams



Canals



SeaPorts



Stadium



Bridges



Colleges & Hospitals

Real Estate :

Real Estate is a strong demand generator for PreCast elements, and can be used in all forms of real estate developments.









Warehouse & Industrial





PRECA Products

PRECA - Hollow Core Slab





Function

- ✓ Available in standard width of 1200 mm and depths ranging from 150 to 300 mm.
- \checkmark Ideal for all types of construction.
- ✓ Incredible speeds and high efficiency in completion of floor slabs.
- ✓ 30% lighter than conventional slabs covering long spans.
- ✓ The prestressed 300mm thick slab can span up to 16 m without intermediate beams and columns.

- ✓ Offers instant dry working surface and totally eliminates gangs of manpower and shuttering works at site.
- ✓ A typical 10 square metre area of building can be completed in a minute.
- ✓ Services like ducting and piping can easily be suspended on these slabs.
- ✓ Superior finish totally eliminates plastering at bottom of the slab.

PRECA - Prestressed Beam





Function

- ✓ Capable of spanning greater distance at required depths.
- ✓ Beams can be cast either precast or prestresed as per the design requirement.
- ✓ It covers wide spectrum with multitude of applications, e.g., Spine, Edge, Balcony, etc.
- ✓ Ideal for Commercial, Residential, Shopping malls bridges, Pedestrian bridges, etc.

- ✓ Reduction in size of beam and reinforcement because of higher grades of concrete.
- Factory controlled quality casting ensures Smooth finish totally eliminating plastering and shuttering works at site.

PRECA - Precast Column





Function

- ✓ Standard offerings are Rectangular and Circular with various finishes and sizes.
- Columns of wide variety, including lengths and shapes can also be offered according Customer requirements.

- ✓ Saving on cost and time as scaffolding and shuttering is eliminated.
- ✓ Production in factory controlled environment, better quality than In situ.
- ✓ Monolithic casting can be done for longer length.

PRECA - Precast Staircase





Function

- Most efficient and professional method of building stair cases in today's modern construction method.
- ✓ Eliminates expensive on-site scaffolding and shuttering.
- Ideal for Commercial, Residential, Shopping malls, Metro stations, etc.

- ✓ Unobstructed and safe access to building during construction time.
- \checkmark Fast and easy to install.
- \checkmark It can be utilized immediately after erection.
- ✓ Eliminates plastering and finishes.

PRECA - Precast Wall Panel





Function

- Wide variety of wall panels can be used in Residential, Commercial, Educational, and Office buildings.
- Can be used as Load bearing walls, internal walls, Cladding walls, Retaining walls, Lift shafts, and Boundary walls.
- ✓ Easy-to-maintain Architectural requirements in elevation.
- ✓ Wide variety of finishes can be produced according to requirement of the project.

- ✓ No form work is required to install and the process is faster.
- ✓ Factory controlled production helps in achieving better quality.
- ✓ Any size and shape of panels can be produced according to design requirement.
- \checkmark It reduces construction time and maintenance cost.
- ✓ Services conduits can be concealed while casting as per MEP requirement.
- ✓ Logos and pictures can be embedded while casting as per requirement.



Our Experiences

Experience #1 – SEZ Project





Project Description:

✓ Office Building, Stilt-2+G+7, 3,40,000 Square Foot

Project Prime Challenge:

- ✓ 80% time spent 20% work completed
- ✓ 20% time left 80% work to complete

Construction Methodology:

✓ In- situ Columns, Precast Prestressed Hollow core Slabs and Prestressed Beams

Our Scope:

 Turnkey delivery - Prestressed Hollow core slabs & Prestressed Beams

Result

- ✓ Client met his time lines set by his customer
- ✓ PRECA awarded with new Project by client

Experience #1 – Visuals





Experience #1 – Visuals





Experience #1 – Visuals





Experience#2 – IT Tower Project





Project Description:

✓ IT office Building – Stair Cases - Stilt-2+G+14

Project Prime Challenge:

- ✓ Complicated Shuttering, Shortage of skilled Mason
- \checkmark Uneven Risers, additional plastering

Construction Methodology:

 \checkmark Precast Stair flights and Landings

Our Scope:

 Turnkey delivery - Precast Stair flights & Precast landing slabs

Result

- ✓ Erected in few hours as opposed to few weeks in conventional system
- ✓ PRECA awarded with additional works.

Experience # 2 – Visuals





Experience # 2 – Visuals





Experience # 2 – Visuals





Experience #3 - Office Building in City Center





Project Description:

✓ Office Building, Stilt-2+G+4, 1,53,000 Square Foot

Project Prime Challenge:

✓ Time line provided – 4 months

Construction Methodology:

 ✓ In- situ Columns, Precast Prestressed Hollow Core Slabs, Prestressed Beams, Precast Retaining walls, Precast lift walls, Precast staircases.

Our Scope:

 Turnkey delivery- Precast Prestressed Hollow Core Slabs, Prestressed Beams, Precast Retaining walls, Precast lift walls, Precast staircases.

Result

Client to met his customer time lines

ISO 9001:2008 Certification for Design, Manufacture and Supply of Precast Prestressed Concrete Products and Turnkey Execution

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Recognitions:



Best in Class Manufacturing – Green Manufacturing Award in National Quality Excellence Awards 2013 from World CSR Day and Stars of the Industry, USA



Our Select Work Pictures











































