

Welcome

To

Technocore Precast Plant & Machinery Services

www.technocore.in



About “Technocore Precast Plant & Machinery Services”

- Technocore system is ventured with a range of machines that are simple, reliable, efficient & easy maintenance and produce high quality product at the low investment costs to result in early ROI (Return on Investment) when compared to the other suppliers in the industry
- Technocore is positioned as one stop supplier for all your precast needs – to provide state of the art equipment and unflinching services in the process, for the new plant set up as well as for the other existing plants enhancements. Our team will be available at your assistance from concept to the installation and complete operational of the plant and facility
- The Technocore Team stands out in providing the best possible, innovative and practical solutions for precast industry
- **Core Values:**
 - Ethics First
 - Optimum Utilization of available Resources.
 - Viable & Sustainable Solutions to Client’s Aspirations.
 - Recognition & Encouragement of Innovative Talent in an Open & Transparent Work Culture.
- **Core Purpose:**

Contribute to the infrastructure development for betterment in Quality of Indian Life.
- **Mission:**

To facilitate the transition from Conventional Construction Method to the Precast Concrete Technology; specifically to the large scale developments in Indian Realty Sector using the acquired knowhow on international projects combined with strong technical knowledge, innovative concepts and effective project management systems.
- **Vision:**

To be the Leader in Providing ‘**Total Precast Production Solution**’ for the Indian construction projects by 2020

Benefits – Structural Stability

- The precast structure is designed with Vertical, Horizontal & Peripheral ties leading to the structural integrity & robustness.
- The behavior of the shear-walled building is much better than the conventional framed structure specifically under lateral loads like seismic & wind forces.
- The distribution of vertical loads at foundation level is more distributed as against concentrated at column locations in case of conventional structure.
- The structure is more material efficient as the use of heavy non-structural block-work is omitted.

- Precast technology can offer the speed of construction of the order of 1000 sqft per day. This indirectly means more profit in the same period.
- The casting of precast units in a controlled environment leading to a better quality of concrete.
- The reduced wet work at construction site leading to cleanliness and better Health & Safety at the site.
- The project can be better managed as there are minimum number of subcontracting agencies to be liaised with.

- The system offers more flexibility in terms of architectural design as the interior wall positions are independent of structure.
- The condominiums are more efficient; more carpet area for same built-up area.
- The structure is energy efficient due to cores in the flooring units.

Precast Elements under erection







Types of machines used in production of precast concrete building elements

- **Hollow core Extruder – Pre-stressed HCS**
- **Extruder – Hollowcore wall panel**
- **Tilting table – Wall panels**
- **Battery mould – Wall Panels**
- **Staircase mould**

Machines used for production of Hollowcore slabs & Wall panel

- Hollowcore extruder
- Nozzle units for different thickness
- Hollowcore Saw
- Stressing system
- Casting Beds
- Strand containers
- Lifting/ De-moulding beam and clamps



Extruder

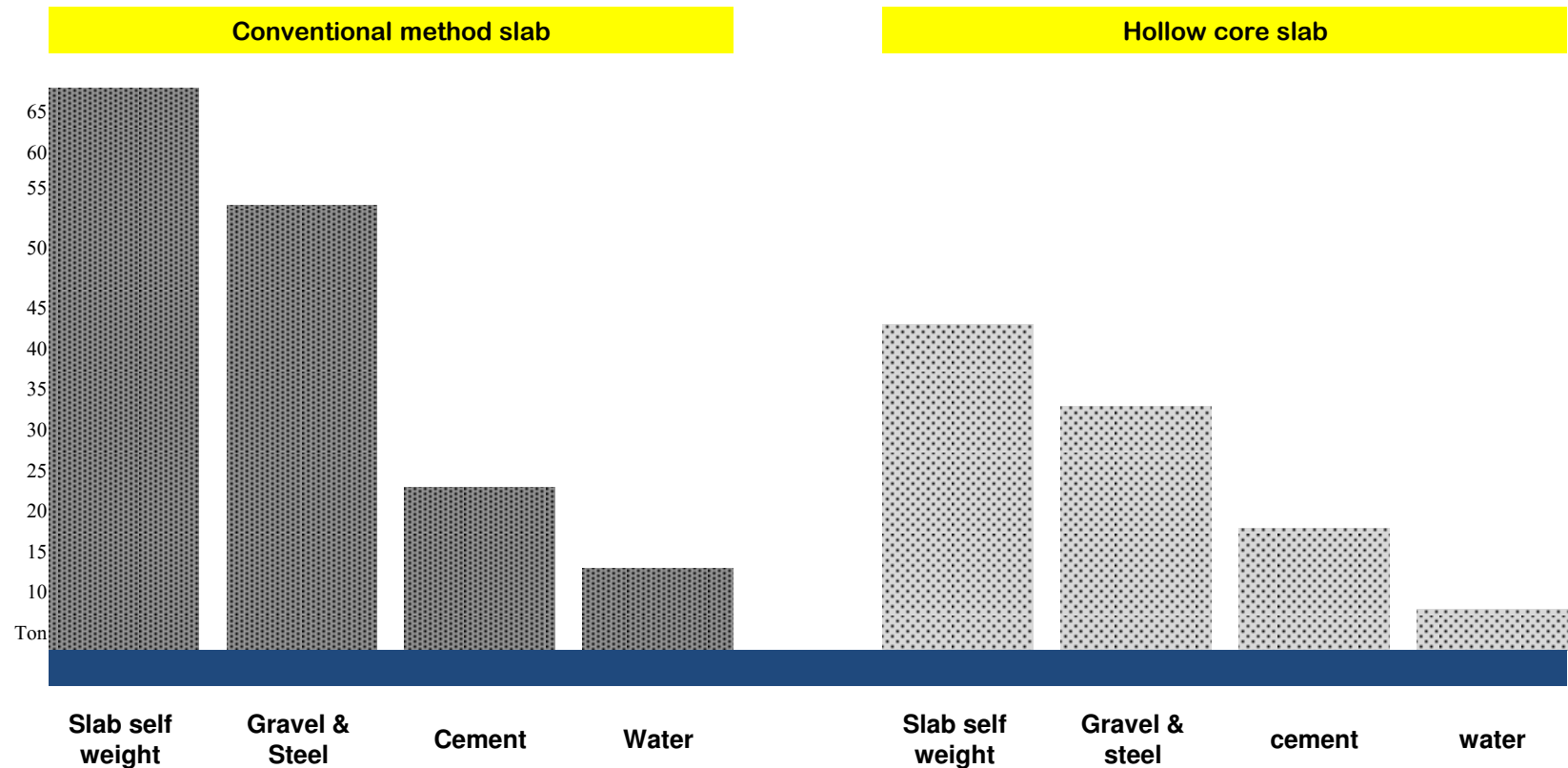


Hollowcore Saw

Extruder is certainly one of the top illustrations of advanced concrete solutions with planted vibration system which supports to produce durable quality of concrete slabs with very less wastage and relatively less time required for curing.

Conventional slab & Hollow core slab

TOTAL RAW MATERIAL SAVING



Hollowcore slabs saves upto 50% on raw material

Types of moulds used for Load-Bearing & Non load bearing wall panel and Staircase

- **Tilting Tables**
- **Battery mould**
- **Staircase mould**



Scope and requirement for precast concrete

- Nayaraipur housing board – 4700 Crore
- Vishakapatnam Hudhud homes – 340 Crore
- Chattisgarh housing corporation – 1350 Crore

Scope:

- Estimated 200 million sqm of precast construction estimated for New capital city in coming years
- Upcoming buildings in Vishakhapatnam are being considered to be constructed using precast concrete due to its stable and robust design that fits well for its weather conditions

Precast companies in India

- **Precast Buildcon – Hyderabad**
- **Preca Solutions – Hyderabad**
- **Infra-fusion Precast – Chattisgarh**
- **Goldengate Properties – Bangalore**
- **Brigade Group – Bangalore**
- **Sobha Developers**
- **VME Precast – Chennai**
- **Teemage Precast – Chennai**
- **I-Build Precast – Pune**
- **Precast india infrastructure – Pune**
- **Simplex Group – Mumbai**
- **L&T – Mumbai**
- **Supertech Limited – Noida**
- **Amrapali Group – Noida**
- **Shapoorji Pallonji**
- **Patil Precast**
- **KEF Infrastructures**
- **Jindal Realty**
- **Janapriya Developers**
- **Mooreliving – Bangalore**

PRECAST TECH TO BE USED TO BUILD HOUSES

Hyderabad: Andhra Pradesh government has a huge task at hand of Building homes for Hudhud-affected victims. As per government estimates, it needs to build 85,000 houses across districts of Visakhapatnam, Vizianagara and Srikakulam. Keeping in mind the limitations of cost and time, the AP government, has decided to construct houses using precast technology.

The government had earlier this month sanctioned 7,100 seismic-resistant houses to be built for Hudhud victims with a project cost of ₹340 crore. A GO was released on Tuesday, which mentioned the government's desire to build these 7,100 houses using precast technology. R. Karikal Valaven, the principal secretary of the housing department, said, "The benefits of precast technology are durable, cost effectiveness and swiftness. The government wants to build and deliver the cyclone and seismic-resistant houses to the Hudhud victims as soon

as possible. However, as precast technology is relatively new, we have decided to call for 'Expression of Interest' from companies involved in such construction from across the world.

Newsletter from
Deccan Chronicle
on 26th Feb, 2015

Cost comparison and other value added advantages



construction is with the precast type

Estimated Capital Costs		8 Beds		2 Beds	
	Qty	Total costs	Qty	Total cost	
HC Production Machinery - STAGE 1 (8 / 2 beds)					
Extruder – All Options	2		1		
Universal Power Unit	2		1		
15x120cm Cassette		1,91,73,000		95,86,500	
Cutting Equipment			Qty		
Cross Cut Saw	1		1		
Yard Beam Saw	-		1		
Saw Blade - 900mm – OPTIONAL EXTRA	1	1,14,43,625	2	93,99,750	
Production Accessories			Qty		
Bed Cleaner (inc. 2 x cover rollers)	1		-		
Additional Cover Rollers– OPTIONAL EXTRA	1		-		
Concrete Distribution Skip– 1.5m ³	1	66,77,350	1	4,56,500	
Lifting/Handling Equipment			Qty		
2.1 Ton 1m Slab Lock Lifting/Fixing Clamps	4		4		
6.0 Ton 3.0m/5.0m Collapsible Spreader Beam	2	12,69,900	2	12,69,900	
Single-Stressing System – 150 Tonnes			Qty		
Stressing Grips Package– 9.3mm	1		1		
Stressing Jack 16 Ton Short Stroke 200mm- 9.3mm	1		1		
SR3000 Stressing Pump 38/415v – 50/60Hz	1		1		
Live End Stressing Abutment (1 req. per bed)	8		2		
Dead End Stressing Abutment (1 req. per bed)	8		2		
Hydraulic Detensioning System (1 req.)	1		1		
Cast-in Pockets (2 req. per bed)	16		4		
		85,81,370		39,59,930	
Casting Beds			Qty		
Skin Plates– 120m metres– OPTIONAL EXTRA	8		2		
Bed Ends– OPTIONAL EXTRA	16		-		
Strand Deflector Plates– OPTIONAL EXTRA	16		-		
Stressing Guards– OPTIONAL EXTRA	16		-		
Bed Heating Pipes/Manifolds– OPTIONAL EXTRA	8		2		
		1,86,58,400		43,57,500	
Consultancy/Training/Software			Qty		
Design of the Production Beds– OPTIONAL EXTRA	1		1		
Design of the Factory and Stressing Abutment Civils	1		1		
CAD– Hollowcore Design/Production Software(Annual)	1		10		
		11,62,000		11,62,000	
	INR	6,69,65,645		3,01,92,080	

- Technocore can provide similar plant setup at approx 50% price
- Complete one-stop solution provider for machinery and moulds for precast industry
- Stronger after sales: Locally available for every technical, operational, etc., support
- Consultation on skilled manpower may be provided for operations

Our plant & machinery operational at sites

- Golden gate properties – Bangalore

Plant capacity – 20No's tilting tables and twin stair system



Project: The commune,
G+13, Chandapura – 450,000 sft



- **Infra-fusion precast pvt ltd – Bhilai, Chattisgarh**

Plant capacity – 4700 sft per day of HCS

Projects:

Sri Shankaracharya university 650,000 sft HCS

Nardaha G+3 and G+8, Nayaraipur Housing Board – Complete precast Building



- **Precast Buildcon India Pvt Ltd - Hyderabad**

Projects-

Restaurant – Vijayawada Railway station

MRC automobiles (Yamaha showroom) – Eluru

Divyajot chemicals – Nizambad

Velox Ingenium – Gudur, Eluru, Hyderabad

Renen/Cirrus/laxmiganapati/Value labs – for solar power plants

AP housing corporation - Samalkota

Piramal Healthcare limited - Zaheerabad

Enertech Engineering pvt Ltd - Hyd

Amtek railcar Industries Ltd - Rajpura

Project Nirvana – Hyd

Lakshmi card clothing – Coimbatore

Avinash Group-Chattisgarh

Etc.,



Estimations, facts and conclusion

- The desire and wish of government of India to make millions of dwelling units in a short time is only possible with Precast/pre-stressed construction practices
- The industrialization of the buildings must take us into the future of construction.

Thank You



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