Delivering Complete Precast Concrete Reliable Solutions
Trojan Holding, a conglomerate of companies with specialization in construction industries formed Hitech Concrete Products L.L.C. in 2006, to cater to the production of masonry blocks and pre-cast concrete elements to the ever growing building industry in the United Arab Emirates. Hitech Concrete Products L.L.C., is located in a plot little over 1,000,000 sq. ft. in the Industrial City of Abu Dhabi –2 (ICAD 2) in Mussafah.

Wall Panels from Hitech Concrete Products allows more design freedom than any other industrial wall panel available in the market presently. These wall panels can be installed horizontally or vertically and can be designed as load bearing or non-load bearing. Exterior finishes include smooth raked, broomed, ribbed, sandblasted or exposed aggregate.
PRECAST CONCRETE
GENERAL MANAGER'S MESSAGE
Here at Hitech, we are much more than a leading producer of all types and sizes of interlocking tiles, blocks, and kerbstones of the highest caliber. From the initial design development stage, through to the final walkthrough, Hitech’s knowledgeable team brings, experience and innovation to every undertaking. We have delivered our first class products to virtually every type of project.

We create strong, lasting partnerships with our customers and apply passion, skills and reliable expertise towards manufacturing quality cement products, as well as providing superior customer service. We let our actions show why we lead the industry in our domain. We strive to be number one in our field. The Hitech team will always ask – “How can we help you?”

We are also:
• Educators dedicated to providing opportunities and feasibilities that promote the advancement of the precast industry.
• We are pioneers in the UAE in setting up successful mobile precast factories that can be designed to serve and suit projects with the best economical and value engineering setups.
• A member of Trojan holding family since 2006. The Trojan holding companies have set the standards and benchmarks for expertise on uncompromising quality in the construction, building material industry, providing general contracting, civil, MEP, infrastructure, design & build, and precast concrete products services.

Samir Koblawi
General Manager
WHO ARE WE

Trojan Holding, a member of The Royal Group, as the parent company that owns and covers a wide array of businesses from property development, trading, to banking and finance, has formed Hitech Concrete Products L.L.C. in 2006 over an area of 1,000,000 sq. ft at Industrial City of Abu Dhabi-2 (ICAD2).

Hitech Concrete Products L.L.C. is one of the leaders in the field of Precast Concrete Products, masonry blocks and paving stones industry in the United Arab Emirates. We supply high quality and innovative, customizable precast concrete product solutions, and industry leading installation and construction services designed to meet the needs of the continuous evolving building and construction industry. We offer a full product and service package with the ability to design, detail, manufacture and install diverse range of precast concrete products.

Hitech undertakes Design and Build Contracts adopting the Precast Building System. Hitech’s team offers various solutions to convert traditional cast in-situ projects into precast concrete construction system throughout all processes starting from design to execution.

Hitech have their own in-house laboratory completely equipped with latest instruments to check and ensure product quality. Hitech follows local and international standards for design, production, delivery and health, safety and environment.

Hitech is an ISO 9001:2008 certified company, and a member of several international institutes and associations such as PCI, ACI, GRCA and IPHA.
**VISION**

To become the prominent leading precast concrete company in the UAE, we continuously strive to exceed our client’s expectations, be it in terms of pricing competitiveness, lead time to delivery or quality of products achieved through a culture of safety and empowerment.

**MISSION**

We strive to lead and deliver quality precast solutions through safe, innovative and sustainable practices using our expertise in the design, manufacture and installation of all precast concrete components. We strive to conduct and maintain all our business transactions with the highest levels of integrity, honesty, competitiveness and fairness, focusing on our customer’s need and continuously improving our processes and services. We aim to continuously be a positive integrated part of the Trojan Holding family, maximizing the returns to our shareholders and giving our employees the opportunity to be rewarded, trained and grow professionally.
CORE VALUES

- Prosperity: Create value for all partners and stakeholders.

- Productivity: We are committed to the excellence, intelligent planning and focused efforts of our team.

- Reliability: Is the cornerstone of everything we do.

- Commitment: We are dedicated to the satisfaction of our customers, the wellbeing of our co-workers and the success of our company.

- Sustainability: It is all about the survival, to overcome the unexpected.

- Integrity: Respect everyone and treat those as you would like to be treated and do what you say you are going to do.

- Teamwork: Work smart, work hard, work together.

- Innovation: Built upon entrepreneurial values, we believe everything can be innovated.

- Safety: Look after yourself, your team and others around you.
WHY USE PRECAST

- Production under strict quality procedures and controlled environments
- Long spans, thus no propping or scaffolding
- Maximum Design flexibility
- High strength
- Light weight especially in hollow core slabs and GRC
- Fire resistance
- Thermal and acoustic insulation
- Speed construction, fast installation
- Sustainable, long service use
- Environment friendly green products
- High loading capacity
- Less weather dependency
- Low maintenance cost
- Less site workforce
RANGE OF PRODUCTS

- Sandwich Panels / Insulated Panels
- Solid Panels
- Cladding Panels
- Hollow core slabs
- Boundary Walls
- Precast Columns
- Precast Beams
- Staircases
- Parapets
- Precast Foundation
- Infrastructure elements (Manholes, culverts, tunnels, tanks, substations, barriers…etc.)
- Complete Precast Concrete Building Systems.
- Glass fiber Reinforced Concrete – GRC.
- Glass Reinforced Plastic – GRP.
WALL PANELS

Hitech’s precast concrete panels and walls offer building designers, users, owners and managers a solid wall system with superior aesthetics, durability and construction economy. Hitech produces all types of precast concrete wall panels such as sandwich panels, cladding panels and solid panels. Panels are produced on horizontal, flat steel surfaced tilting tables.

Insulated, or sandwich, wall panels from Hitech allows more design freedom, ideal for rapid construction and satisfies the needs and requirements of project's specifications in regards to thermal insulation and green construction. These wall panels can be designed to act as load bearing or non-load bearing.

Cladding wall panels from Hitech are architectural precast panels used as exterior cladding in commercial and residential structures. Panels are available in a wide range of textures, patterns and colors to meet design requirements, and cover the virtually limitless architectural effects. Hitech manufactures solid wall panels that can act as load bearing and non-load bearing structural elements.
HOLLOWCORE SLABS

Prestressed hollow core slabs are the most widely used type of precast concrete flooring system due to the highly efficient design and production methods, and choices of depth and capacity. Hollow core slabs are primarily used horizontally as floor, roof deck systems and bridge deck units, and are also used vertically as wall panels and boundary wall panels.

The continuous voids, or cores, in the hollow core slabs provide the reduced light weight and the thermal and acoustic characteristics. Hitech manufactures different thickness of hollow core slabs ranging from 150mm up to 500mm thick. Hitech is one of the very few companies that provide hollow core slabs with 1200mm and 2400mm width. Slabs with narrower width can be provided based on design requirements.

Depending on the load conditions, slabs with relatively long spans can be designed, produced and erected at site. Hitech’s hollow core production facility is equipped with the latest American (Spancrete) and European (Elematic) computerized casting equipment and machinery including multi stressing devices, diamond cutting saws and automated batching plant.

Openings and holes can be formed in hollow core slabs within the limitations imposed due to slab thickness, span, loading, location of strands, core size and position. Small holes are usually made at the site after erecting the slabs by rotary drill. Fastenings to hollow core slabs are easy to achieve and various methods are suitable to support suspended ceilings, services and the top of walls.
BOUNDARY WALLS

Hitech offers high quality product boundary wall systems that are custom made to suit any project requirements in regards to design, dimensions and shapes. Hitech’s boundary wall system consists of eccentric or concentric precast concrete footings attached separate from precast concrete columns. Panels can be solid precast concrete walls with different thicknesses or it can be Hollow core panels.

Precast concrete boundary wall systems are valuable to all kinds of project for the following reasons:

• Surface finish is of very high quality as it is produced under strict controlled environment.
• Flexibility in height, shapes, and surface finishes, design and color combination.
• Minimal or Low maintenance cost.
• Short construction and erection time.

COLUMN, BEAMS & FOOTINGS

Precast beams and precast columns are one of the most flexible systems that can suit all architectural and structural criteria in most of projects. Precast beams and columns are fast to install, do not require propping or scaffolding systems, thus it saves cost, time and resources. Hitech produces precast concrete beams and columns using both normal reinforcement and prestressed reinforcement. In all types it is possible to provide exposed reinforcement for composite structure.

Hitech produces all types of beams such as rectangular beams, box beams, inverted T beams, L shape beams, I girders. Also, Hitech manufactures columns in a variety of sizes, shapes and lengths. Precast columns can be provided with single or multiple corbels to support floor or roof beams. Hitech provides precast concrete footings in various types and shapes such as isolated footings, pocket footings, inverted T footings, strip footing...etc, for the use as building foundations or boundary wall foundations.
STAIRCASE

Stairs are an essential part in any type of structure, and precast concrete stairs are the ideal solution for all kinds of projects, whether it is industrial or commercial, high or low rise buildings, villas, schools, shopping centers. Hitech provides different types of precast concrete stairs, straight or spiraled, with attached or detached landings.

Precast concrete staircase can be produced with different surfaces like smooth finish ready to receive paint, polished steps or a roughened finish to get a non-skid effect. The use of Hitech precast concrete stairs eliminates expensive shuttering or scaffolding systems at site, reduces the project construction time and reduces the workforce required at site.
INFRASTRUCTURE ELEMENTS

Hitech manufactures a wide range of high quality precast concrete elements that are used in all kinds of infrastructure projects such as rectangular and circular manholes, culverts, tunnel segments, utility boxes, substations, water tanks, security and road barriers.
Wall system:
Involves the use of insulated precast concrete wall panels as external skeleton of the structure with combination of internal load bearing and non-load bearing solid wall panels, solid slabs or hollow core slabs, stairs and precast concrete or GRC claddings.

Frame system:
Involves the use of precast concrete footing, columns and beams, solid slabs or hollow core slabs and stairs.

COMPLETE PRECAST CONCRETE BUILDING SYSTEMS
Complete precast concrete building systems are one of the most versatile and reliable solutions to any project. It combines all the advantages and benefits of the precast concrete methodology with respect to high thermal and acoustic insulation, resource savings, premier quality and speed construction.

It is the perfect solution for massive projects of villas, labor accommodations, industrial buildings and facilities, sports arenas, schools, hospitals and warehouses.

Two main systems are used to act as a complete precast concrete building solution:
GLASS FIBER REINFORCED CONCRETE

Glass Fiber Reinforced Concrete, or what is commonly known as GRC, is a composite cement sand matrix that uses glass fibers for reinforcement instead of steel. The glass fibers effectively reinforce the mortar mix thereby improving its tensile and flexural characteristics. Glass fibers can be incorporated into a matrix either in continuous or discontinuous chopped lengths.

Glass Fiber Reinforced Concrete is one of the most versatile building materials available to architects and engineers having lightweight, making it easier to handle on site and reducing loads on structures when in use. The unique properties of GRC allow the manufacture of thinner wall products that are not achievable in precast concrete or natural stone.

GRC can be moulded into a wide variety of complex shapes and profiles and is ideally suited to the popular fast-track approach of using lightweight, prefabricated architectural products such as wall panels, window surrounds, column covers, soffits, cornices, brackets, quoins, railings, pilasters, copings, domes, site furnishings, planters, bollards, urns and tables. It can be produced in various colors and surface textures.

 Advantages of GRC:

- Light weight
- High strength
- Toughness
- Adaptability to any shape
- Durability
- Sustainability
- Project Cost Reduction
- Weather Resistance
GLASS FIBER REINFORCED PLASTIC

Glass Fiber Reinforced Plastics are a composite material consisting of fiberglass reinforcements in a plastic (polymer) matrix. The variations of both reinforcements and polymers allow an incredible range of physical and mechanical properties which can be developed specifically for the performance required.

Fiberglass Reinforced Plastic composites are strong, lightweight, corrosion resistant, thermally and electrically nonconductive, RF transparent, and virtually maintenance free. There are unique properties of GRP that make them suitable and desirable for a wide range of product applications.

Fiberglass is an attractive, lightweight, and durable material with one of the highest strength to weight ratios available for component fabrication. It is also highly resistant to environmental extremes. Glass Fiber Reinforced Plastics (GRP) do not rust, are highly resistant to corrosives, and are able to withstand temperature extremes as low as -80°F or as high as 200°F.

Fiberglass reinforced plastics can be tooled, molded, and fabricated into almost any shape or design. There are few restrictions on color, finish, shape, or size. In addition to its versatility, GRP products are very affordable and cost effective solutions for almost any application, component, or part. Once molds have been created, parts can be easily duplicated at extremely cost effective price points.

GRP products are chemically inert, thus will not react chemically with other substances. GRP products are also structurally stable and exhibit the least amount of expansion and contraction with temperature fluctuations as compared to traditional materials.

A process where each layer of the laminate is individually fabricated one at a time on a contact mold. Allows precise control of the glass content and ensures that the glass is thoroughly wetted out with resin. This fabrication method is the most labor intensive.

Advantages of GRP:

- Advantageous strength/weight ratio
- Chemical resistance (including water and corrosion resistance of all kinds)
- Inherent colours, including maintenance-free finishes
- Weathering resistance
- Versatility of design
- Possibilities for combination with other material
- Wide choice of resins for special purposes
- Thermal properties
- Electrical properties
- Thermosetting nature (compared with thermoplastics)
- Versatility of manufacturing techniques
- Rigidity (compared with thermoplastics)

Applications:

- Oil Industry
- Water treatment Plants
- Construction Industry
- Pharmacy Industry
- Electrical Industry
- Food Industry
MANUFACTURING AND ERECTION
HITECH
PRECAST
PROJECTS
Hitech has created prefabricated accommodation buildings at Ruwais for ADNOC. These buildings will serve well in their intended purpose as both attractive and functional dwellings.
AIN AL FAYDHA
GOVERNMENT VILLAS

With 2000 villas designed and built in Al Ain, the government compounds will house a top range of facilities and amenities in these charming abodes.
EMIRATI HOUSING DEVELOPMENT AT JABEL HAFEET

The project of 3000 villas catering to the Emirati population will secure families happiness within a compound with leisure and comfort at its very heart.
EMIRATI HOUSING COMMUNITY
YAS ISLAND - PHASE I

This project cements our commitment to our Emirati families with acres of luxury and comfort in our range of villas that provide world class community facilities.
AL ASSALA TRADING WORKSHOP

To assist Al Assala Trading in their expanding business, a huge specially built workshop is being constructed by NPC to accommodate the service of their fleet of heavy machinery and equipment.
HYDRA VILLAGE

Located off island and packed with fantastic amenities, Hydra Village is a bustling established community with easy access to Yas Island, Al Raha, and the future Capital District all just a short drive away.
OTHER PROJECTS FROM HITECH PRECAST

- Precast Boundary wall at Madinat Zayed City
- Precast Boundary wall at Al Yahar, Al Ain
- Precast Boundary wall at Al Salamat, Al Ain
- Labour Accomodation at Al Ain Labour City
- Precast Boundary wall at Al Reef
- Precast Boundary wall for Al Watani Villas
- 10,000 nos. of Precast fence foundation for ATS Group
- Precast Planter Boxes for Civiltec
- 2000 nos. of Precast Road Barriers for Ghantoot Transport
- Four seperate Dubai schools
QUALITY POLICY

At Hitech Concrete Products L.L.C., our customer oriented approach and core company values are central to our professional philosophy. The foundations of our success are our expertise to meet our clients’ needs by carefully selecting a team of dedicated professionals with extensive experience and distinguished qualifications, and our commitment to give priority to our clients’ satisfaction taking into consideration time and financial constraints, and follow international standards such as PCI, ACI and BS.

Hitech Concrete Products L.L.C., management & staff, undertakes to:

- Strive to achieve client satisfaction by delivering quality products on time
- Perform as per its obligation
- Providing appropriate tools, equipment, operational processes, safe system of work covering all our activities and support reasonably required to insure success.
- Establishing a constructive relationship with our customers, suppliers and contractors and enhance their performance as they are important in achieving our QMS aims. Only through the cooperative effort of all can the best possible QMS record be achieved.
- Implement and maintain quality management system requirements and use the management system to continually improve our services and deliverables.
- Communicate this policy along with the QMS manual and the related procedures to all Hitech Concrete Products L.L.C. staff and sub-contractors and ensure they understand it through continuous training and auditing programs.

Management review meetings shall oversee the proper implementation of this system and set directions and priorities for the different components of the organization.

We are committed to revolutionize the construction globe to excellence.
HEATH, SAFETY AND ENVIRONMENT POLICY

Hitech proactively implements Occupational Health, Safety and Environmental practices as it is seen on equal party with all other Business Units and Departments throughout all its operations. We believe that safety and health of our employees is paramount and that all incidents, injuries, and occupational illness are preventable and that HSE excellence is everyone’s responsibility. The wellbeing of our stakeholders is of cardinal importance and Hitech Management endorses and is committed towards providing necessary resources to ensure Corporate and Ethical undertakings towards HSE, as to protect everyone from the impacts resulting from our Business efforts leading to a “Safe Working Environment”.

Hitech complies with ISO 14001 standards, OHSAS 18001 standards and all relevant Health, Safety and Environmental Legislative Requirements and obligations. We ensure that these are applied, monitored and implemented in all its Facilities and throughout all its Operations as to ensure continual improvement. We promote sustainability within the communities where we work and live by minimizing the impact of our operations and products on the environment. Our Business efforts focus on the protection of the environment, conservation of resources and pollution prevention.

We strive to educate, train and motivate Hitech employees to work in a safe, environmentally responsible manner. It also allows us to ensure a “Duty of Care” to all associated with our Business Operations, such that every Hitech employee takes personal ownership of his own safety as well as that of others.

This policy is in line with Abu Dhabi EHS Policy. Therefore, conformance and integration with this policy is the responsibility of every employee. This Policy will be reviewed periodically as required.
HUMAN RESOURCES

Hitech believes that the core philosophy for growth, quality and customer satisfaction is the result of investing in its employees throughout development, training and continuous improvement. Our people are the building blocks of our company and its continued success over the years.

We believe that they deserve the best work environment - one that offers opportunity for growth and learning at every stage and seeks to enhance and hone the skill sets, competence and ability of every employee at every stage of the company’s process and progress.