

PRODUCTS: CIVIL ENGINEERING

We build the future.



PRECAST CONCRETE COMPONENTS FOR CIVIL ENGINEERING PROJECTS

Dubai Precast products are in line with the current trend to adopt industrialized building systems. Dubai precast manufactures a full range of infrastructural precast concrete products for civil engineering projects.

Our Range Of Products Include:

- railway sleepers
- bridge girders
- tunnel segments
- box sections, drains, culverts, chutes, trenches
- retaining wall structures
- and other customized products.

Some of these products are highly technical, specialized and are produced in our factory to the highest precision.





CONCRETE RAILWAY SLEEPERS

We have a vast experience in the demanding production of a full range of concrete railway sleepers to several international standards. Our references include hundreds of thousands of sleepers for normal railways as well as high-speed railways in South East Asia.



We can produce concrete sleepers according to any international standard, in Meter Gauge, Standard Gauge or others with several different fixing systems. We also produce turn-off bearers and crossing bearers according to the client's specification.



We are well aware of the demanding requirements for concrete sleepers and will guarantee that our products fulfill even the most demanding specifications. Our stringent quality control process will ensure the product is within the dimensional tolerances as well as fulfill the critical long term durability requirement of the product.



PRECAST BRIDGE GIRDERS

Our range of precast concrete bridge girders are manufactured to precise tolerances. Utilization of precast beams ensures easy installation, minimizing on-site time and disruptions to traffic. Production in a factory environment ensures high workmanship and quality products.

Girders are generally produced in our factory unless they are too long to transport. In this case, they may be produced adjacent to the installation site.

Precast Girder Types

Our full range of standard bridge girders include:

- TY beams
- T beams
- Y beams
- SY beams
- M and UM beams
- U beams
- Box beams

Precast Beam Applications:

- Elevated decks
- Bridge decks
- Motorways/Highways
- Jetties and marine decks
- Railways





SEGMENTAL TUNNEL LINING

The tunneling industry has widely adopted segmental lining systems for the construction of tunnels. These have made the safe construction of tunnels in soft ground beneath the water table both technically and economically feasible.

Precast Tunnel Lining Segments are engineered and fabricated to virtually any diameter and service application. Segments, usually atleast six per ring, are assembled and installed by the tunnel boring machine as it excavates the tunnel.

The fabrication of large segments to extremely stringent dimensional tolerances requires the use of the highest quality steel moulds. The quality is controlled in every stage of the production daily from the raw materials and moulds to the workmanship at the shop floor. Control of every stage is done to ensure that all components produced fulfill the requirements of the client.



Applications:

- Deep water main systems
- Deep sewers
- Vehicular tunnels : Metros and traffic tunnels
- Deep combined sewer overflow systems
- Waterway crossings

Sizes

Minimum practical diameter is 4 meters. The maximum diameter is limited only to the size and capacity of the tunnel boring machine. We have produced segments for tunnels up to 13 meters in diameter.



OTHER PRODUCTS FOR INFRASTRUCTURE PROJECTS

PRECAST BOX CULVERTS

Precast Box Culverts are ideal for situations where depth or height restrictions demand wide, shallow conduits to handle required flows.

Application:

- Highway or railroad culverts
- Short-span road bridges
- Utility Tunnels
- Storm Drains



PRECAST DRAINS AND TRENCHES

Precast Drain channels and boxes can be used for efficient storm water management and drainage solutions. These can be covered or open as required.

Precast trenches are normally used for laying and the protection of electrical cables.



CONCRETE ROAD BARRIERS

Precast concrete highway barriers serve as more than just barricades against unwanted traffic. They also serve as safety devices. When installed parallel to roadways, they are used to realign stray vehicles and reduce their speed.



NOISE BARRIER WALLS

An effective and efficient type of sound wall barrier can be manufactured from Precast Concrete. This barrier fulfills three purposes: First, it blocks sound waves and reduces noise from a desired area. Second, it is durable to weather and other conditions because it is made from reinforced concrete. Third, it is aesthetically pleasing because both sides of the wall can be textured or a custom design.



RETAINING WALL STRUCTURES

Designed to provide a cost-effective, versatile solution for a wide variety of earth retention and material storage uses, Precast retaining wall units are available in a tailor-made range of widths and heights as required for each purpose specifically

Benifits:

- Tailor-made for specific loading conditions
- Simple, rapidly installed dry construction
- Easy to handle, using minimal labour





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