

DELIVERING EXCELLENCE

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We, Maruthi Concrete Works, are an unparalleled name in manufacturing and supplying a premium quality range of Pre cast concrete Products, We are manufacturing these products with the help of modern production methods with utmost care and utilizing quality approved basic material. In our product range we are providing RCC hume pipes, HDPE lined RCC hume pipes, Pre cast Manholes, Pre cast U drains, Jacking pipes, and SFRC Concrete Manhole Frames. Offered products are highly acclaimed by the customers for their proper flow management, accurate dimensions and leak proof nature. Moreover, we are offering these products in various technical specifications to suit the growing needs and demands of our customers. We are offering these products at budget friendly prices as per the detailed requirements of our clients. Equipped with a state of the art Vertical Vibration technology machine with very high production rate, consistent quality and a range of custom made products as per clients requirements.

Segments Served:

1. National Highways and Road projects.
2. Underground Drainage (UGD), Sewage lines.
3. Metro Rail
4. Urban Infrastructure.
5. Real Estate Development.
6. Railways

PRODUCT PORTFOLIO

RCC HUME PIPES :

We offer RCC Pipes that are used by various government bodies or construction companies for sewerage, storm water drainage, road culverts, under railway tracks and highways. These are available in different sizes as per the Indian Standard. They are known for high performance, reliability, durability, heavy load bearing and low maintenance.

Manufactured in diameters from 300 MM to 2200 MM in both Flush joint as well as Socket & Spigot ends can be designed for substantial external loads. The bell or spigot ends of the pipe, as well as the full pipe section contain both circumferential and longitudinal steel reinforcement.

Available in sizes and class:

- 300 mm to 2200 mm NP2, NP3 and NP4, with flush joints
- 300 mm to 2200 mm, NP2, NP3, and NP4 with Socket & Spigot ends

With the state of the art Vertical Vibration Precast machine, which has

1. Very high production capacity
2. Consistent Quality
3. Precast products of any size, shape and strength can be manufactured.
4. Faster Delivery as curing time is less.
5. Less consumption of water thus saving on water.
6. Delivery deadlines can be met with less dependency on Labour

Pre cast u drains:

Precast concrete U drains allow for speedier construction of channels with minimum wet cast concrete work. MCW manufactures a full range of U shaped drains. These drains range in widths from 450 mm to 1500 mm. They are produced in strict factory controlled conditions that ensure high quality. Besides storm water drainage, these types of drains are also used to house underground cables and waterlines in industrial setup.



FEATURES

- Manufactured with M - 30 grade of concrete by vibro compaction process
- Suitably reinforced to promote long life
- For Jointing, it is recommended to fill the joint between two adjacent drains with cement mortar
- The drain should be laid on a properly compacted base
- Heavier drains are provided with lifting nuts

Quality & Testing :

All the RCC hume pipes and other pre cast products. will be manufactured as per IS : 458 : 2003, and the SFRC manhole frames and covers will be manufactured as per IS: 12592

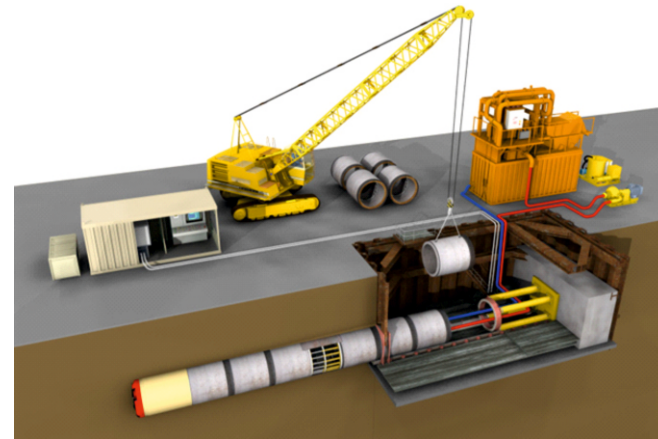
Testing facilities :

1. Three edge bearing test
2. Hydro test
3. Permeability test
4. Straightness test



Jacking pipes:

Pipe jacking is a method that is used to install a prefabricated pipe from a drive to a reception shaft in the ground. There are jacks that are located in the drive shaft which propels the pipe. It is the jacking force that is transmitted through the pipe and is directed to pipe jack excavation face. With traditional methods, cables and mains that were being installed could only be done with a continuing open cut excavation. This creates a lot of potential problems, challenges and time delays.



With the ability to utilise underground spaces, pipe jacking offers many benefits. This is especially true in areas that are becoming congested and complex. Many of the underground structures are comprised of sewers, water and electrical piping. They also consist of gas mains, telephone cables as well as networks for cable TV.

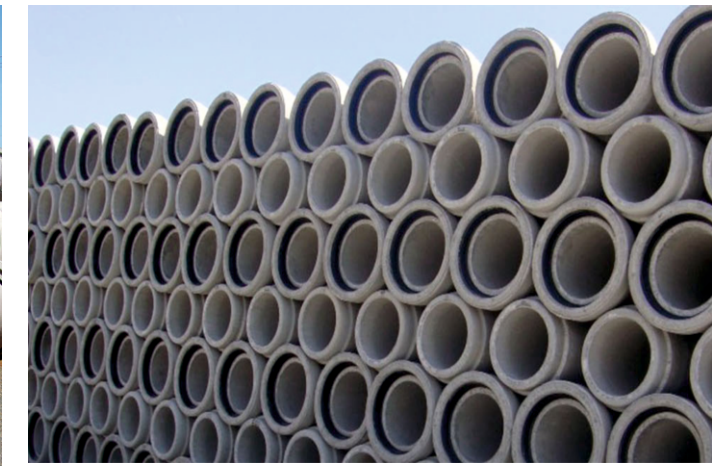
A wide robust range is available from DN300 to DN2200. They are a custom designed reinforced concrete jacking pipe incorporating a single wide jacking face including timber packers, a secure steel collar cast onto the pipe and a flexible watertight joint. All these being essential for longer pipe jacks and unstable ground conditions.

The fixed steel collar jacking pipes provides high axial load transfer capacity and a flexible watertight joint. This is the ideal jacking pipe for all stormwater, sewerage, sleeve pipe and jacked low-pressure pipeline applications.

SFRC Manhole Frames and Covers:

We are the leading manufacturers of heavy duty SFRC (steel fiber reinforced cover) drain covers used on main roads.

- » They are customized according to users specifications
 - » The building material steel fiber is also manufactured by us.
 - » They can survive the weight of serious traffic on roads.
- Sizes available : 560 mm dia, HD-20, 600 mm dia, HD-20



HDPE LINED RCC HUME PIPES

Concrete is attacked by Acids and Alkaline. The powerful inorganic sulphuric acid reacts with hydrated calcium silicates and lime present in the cement structure and reduces it to a soft swelling paste. Increase global industrialization causing a steady increase in the number of aggressive agents in waste water, especially agents such as Hydrogen Sulphide.

Also, the presence of sulphate and chloride in soil creates aggressive saline conditions that pose a threat to concrete resulting in:

- Reduces structure strength, increased failures.
- Decreased flow of sewerage.
- High Maintenance Cost.
- Need for newer lines, increase life costs



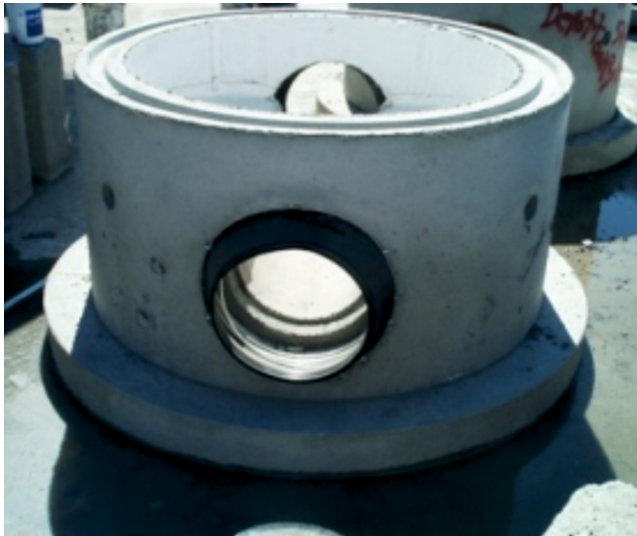
SOLUTION

The authorities responsible for installation of sewerage pipelines around the world are now seeking the solution on how to make use of the excellent life time properties of concrete pipes and at the same time protect the pipelines against aggressive chemicals. The use of a thin layer of soft or semi-soft PVC or PE lines on the inside of the concrete pipe surface has within the last 20-25 years has proved its ability to meet the market demand for such kind of concrete surface protection.

T-Lining is a flexible sheet liner which is flat on one side whilst the reverse side is provided with parallel T-shaped ribs with locking extensions. T-Lining's projection moulded in T-ribs are designed to allow concrete to flow around them during casting and is then vibrated to ensure a dense, void-free structure with the HDPE Lining secure to its face, permanently locking the liner into place as an integral part of the concrete substrate this isolating the concrete from the harmful effects of corrosive chemicals for long period of time that can be measured in decades.

Pre cast Manholes.:

Precast concrete manholes are an integral component of any modern sewer system. A properly designed and installed precast concrete manhole system provides superior watertight performance compared with competing methods and materials. A typical precast concrete manhole could be installed 500 feet deep and more because lateral forces act equally around the periphery, which places the section in pure compression- the ideal state for concrete. Manufactured in the controlled environment of a plant, these vital infrastructure components will stand strong for decades of trouble-free service.



STRENGTH

Precast concrete strengthens with time, while other materials can deteriorate, experience creep and stress relaxation, lose strength and/or deflect over time. The load-carrying capacity of precast concrete manhole is derived from its own structural qualities and does not rely on the strength or quality of the surrounding backfill materials. Studies have shown that precast manhole is of M-40 Grade and having AA Class Loading Capacity

EASY INSTALLATION

Precast Manholes are easy to install. Precast Manholes can be easily installed on demand and immediately backfilled- there is no need to wait for concrete or mortar to cure at the job site. The degree of soil compaction around the manhole chamber and remaining trenches is never a problem, making installation easier. Most contractors are familiar with how to handle precast concrete manholes and can install them with a small crew and crane.

REDUCED WEATHER DEPENDENCY

Precast Manhole increases efficiency because weather will not delay production of the manholes. In addition, weather conditions at the job site do not significantly affect the schedule because less time is required to install precast manhole compared with other construction materials, such as case-in-place concrete or brick.

USES :

Precast Circular Manholes are used in sanitary sewer and storm drain systems for access, observation and junctions. They are good choice for:

- Pump Stations
- Well Wells
- Storm Water Management Structures
- Impoundment Overflow Structures

All manholes and vertical structures can be provided for highway, railroad and aviation loading.

APPLICATIONS:

- Access to the System for Maintenance
- Observation Points
- Changes in Pipe Size
- Changes in Pipe Shape
- Changes in Direction of Pipe
- Junctions for Multiple Pipes

Box culvert :

Box culverts are an ideal solution for drainage culverts with wide flow and low hydraulic head. precast concrete box culverts are also suitable for difficult site conditions as installation requires minimal excavation and backfill.

Designed and manufactured in accordance with all current design specifications and relevant standards, box culverts are available in span sizes from 1000mm to 2400mm and internal heights from 500mm to 1200mm dependent on the final mould configuration adopted.



Supplied in either single or multiple runs, the use of precast concrete box sections in civil engineering projects is wide ranging, from their use for directing watercourses to the provision of attenuation tanks and underpasses.