Supreme®
People who know plastics best

Total Piping Solution

Amrutam

Underground Water Tanks

... A hygienic way of water storage

The Supreme Industries Ltd., is an acknowledged leader of India's plastic industry. The innovative product portfolio offered by the company is extensive in range and application and comprises a variety of pipes and a vast spectrum of fittings totaling around 7000 diverse products. Together these constitute the most comprehensive range in the industry that caters almost every conceivable need and application. Company has been a torch bearer in transition from conventional products to advance plastics piping products in the country and has been termed as "Trend Setters of Plastic Piping Products".

After successfully introducing many innovative plastic piping products for different application segments including overhead water tanks, we are now proud to introduce yet another innovative, useful and superior product i.e. Underground Water Tanks. These ready to use tanks in plastics are introduced under the brand name of **"Amrutam"**. The Supreme Amrutam underground water storage tanks are designed to provide a better substitute to existing conventional concrete and masonry tanks. Conventional tanks are associated with multiple problems like crack formation, seepage, root penetration etc. Besides cumbersome and time consuming construction and repeated maintenance requirement, the life span of these tanks is short and uncertain. On the other hand, Supreme Amrutam underground tanks are free from above problems and has many outstanding features.

Unique Features

- **Rotationally Molded, One-Piece Construction**
- **Unique single piece patented design**
- **Great Strength-** Robustly designed with unique rib structure.
- **Simple and Quick Installation**
- **Provided with air tight threaded cover**
- **100% Watertight**
- **Hygienic and Safe-** Free from root penetration, corrosion and biological growth.
- **Minimum space requirement**
- **Minimal Maintenance requirements**
- **Long Life-**Minimum 50 years of service life.
- **Eco-friendly**

Available Range : We offer underground water tanks in different sizes from 1000 to 30,000 liters capacity. Underground water tanks up to 3000 liters are made available in vertical design whereas the tank sizes above 6000 liters have modular horizontal design. Different modular units can be connected with each other for increased capacity up to 30,000 liters.

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Underground Water Tanks

Product Details of Vertical Design

Capacity (Liters)	Diameter (m)	Height (m)
1000	1.2	1.321
1500	1.2	1.692
1800	1.2	2.052
2000	1.7	1.301
3000	1.7	1.748

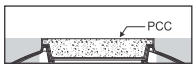
All the tanks are supplied with threaded lid, in case of modular tanks they are supplied with connecting pipes and rubber seals for connection of adjoining modular units.

Product Details of Modular Design

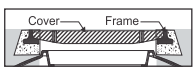
Capacity (Liters)	Combinations	Length (m)	Diameter/Height (m)
6000	Stand alone	2.4	2.2
10000	2 domed ends coupled	3.8	2.2
14000	2 domed ends + 1 Intermediate section	5.2	2.2
18000	2 domed ends + 2 Intermediate sections	6.6	2.2
22000	2 domed ends + 3 Intermediate sections	8.0	2.2
26000	2 domed ends + 4 Intermediate sections	9.4	2.2
30000	2 domed ends + 5 Intermediate sections	10.8	2.2

Installation Procedure

1. Excavate a pit approximately 600 mm larger than the diameter of the tank.
2. Prepare a 150 mm (6") thick bed of granular material and compact it properly. Ensure that the base of the pit is smooth, flat and sufficiently hard to form a solid foundation for the tank and no sharp object/stone etc. should protrude which can puncture the tank.
3. Lower the tank into position in the pit ensuring that it is vertical, centrally positioned, correctly aligned and leveled using spirit level.
4. Fill the tank with a tap water up to 1/3rd capacity. Then start the backfilling, backfilling and water filling should be carried out simultaneously ensuring that the backfilling level never exceed the rising level of water within the tank until the water reaches maximum level. The width of the backfilling should be minimum 300 mm (12") around the tank. Only selected inert granular material i.e. sand/stone dust/ gravels (max. size 10 mm) should be used as backfill material and should be placed in 250 mm layers and compacted to 90% proctor density. It is particularly important to note that excavated material consisting of rock, peat or clay is not used as backfill material.
5. When the level of the backfill reaches the underside of the inlet pipe invert, inlet and outlet connections should be made.
6. Select the appropriate cover as per the site loading conditions and place it on the top of tank. In case of pedestrian movement where vehicular loads are not expected, plastic light weight cover is recommended. This plastic cover should filled with concrete after placing it on the tank. For vehicular traffic movement GRP cover of appropriate load class is recommended. For GRP covers 150 mm thick PCC (min. M150 grade) beneath the cover frame for full width of tank is recommended.



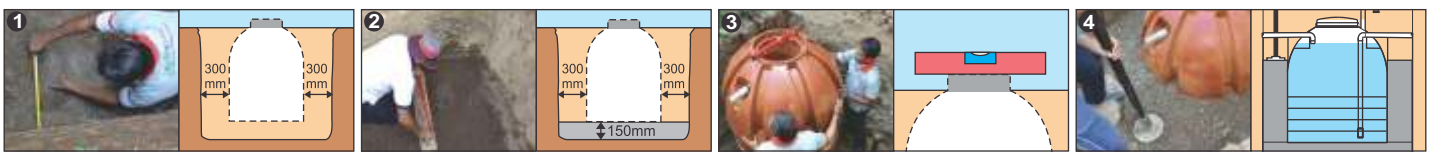
Light Weight Plastic Cover



GRP Cover

7. In case of modular tanks, a firm and stable base or a flat cast-in-situ150 mm thick concrete slab that will facilitate the assembly of the modular tank on a flat surface and will 'bridge' the soil and distribute the weight of the full tank like a raft foundation is necessary.

   (For more details please refer to Users Guide of Safegard septic tank.)



Note: Where abnormal soil conditions occur such as vehicular traffic, rock, black cotton soil or high water table is anticipated or when the backfill above the lid exceeds 1000 mm, detailed guidelines should be referred and the final design rests with the engineer or architect on the project.

The Supreme Industries Ltd. (Plastic Piping Division)

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