

Amrutam Underground Water Tanks

... A hygienic way of water storage

The Supreme Industries Ltd., is an acknowledged leader of India's plastic industry. It is credited with pioneering several path breaking products and has been a torch bearer in the transition from conventional to advanced plastic piping products in the country. Its customer centric approach fuels its research for designing unmatched quality products to meet the aspirations of its quality conscious customers. The innovative product portfolio offered by Supreme is extensive in range and application and comprises variety of pipes and vast spectrum of fittings totaling over 8000 diverse products. Supreme offers an exhaustive range of quality water storage tanks. This includes loft tanks and overhead water storage tanks in different varieties. Recently we

have introduced readymade underground water storage tanks under the brand name of 'Amrutam'. Thus Supreme caters almost every requirement of water storage. Amrutam ready to use plastic tanks are manufactured using the best quality virgin raw material and are equipped with many outstanding features that makes these tanks superior substitute to the conventional concrete and masonry tanks. Besides cumbersome and time consuming construction, repeated maintenance and uncertain life span the conventional tanks are associated with many other problems like crack formation, seepage, root penetration etc. On the other side Amrutam tanks are completely free from these problems and offers many great additional features.



Unique Features

- **Rotationally moulded**
- **Unique single piece patented design**
- **Great strength** – Robustly designed with a unique rib structure
- **Hygienic and safe** - free from root penetration, corrosion and biological growth.
- **100% watertight**
- **Minimal space requirement**
- **Simple and quick installation**
- **Can be relocated**
- **Minimal maintenance requirement**
- **Long life** - a minimum of 50 years of service life is assured
- **Eco-friendly**

Jeevan bhar ka saath...

Available Range

We offer underground water tanks in different capacities ranging from 1000 ltrs to 90,000 ltrs. The tanks up to 3000 ltrs are available in a vertical design whereas tanks with capacity of 6000 ltrs and above have modular design. These horizontal modular units can be connected with each other for an increased capacity up to 90,000 ltrs.

Product Details of Vertical Design

Capacity (ltrs)	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 lids. In case of modular tanks they are supplied with connecting pipes and rubber seals for connection of adjoining modular units.

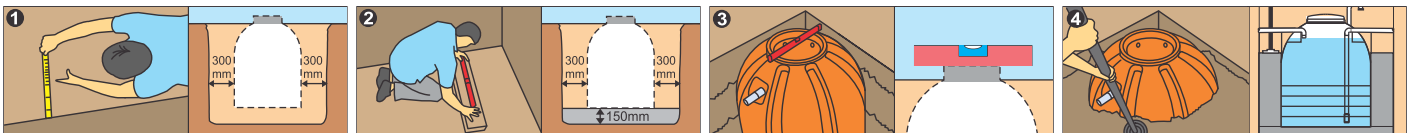
Product Details of Modular Design

Capacity (ltrs)	Combinations	Length (m)	Diameter/Height (m)
6000	Stand alone	2.50	2.2
10000	Domed end 5000 ltrs x 2 nos.	4.10	2.2
14000	Domed end 5000 ltrs x 2 nos. + Inner 4000 ltrs x 1 no.	5.55	2.2
*16000	Domed end 5000 ltrs x 2 nos. + Inner 6000 ltrs x 1 no.	6.30	2.2
18000	Domed end 5000 ltrs x 2 nos. + Inner 4000 ltrs x 2 nos.	7.00	2.2
*20000	Domed end 5000 ltrs x 2 nos. + Inner 4000 ltrs x 1 no. + Inner 6000 ltrs x 1 no.	7.70	2.2
22000	Domed end 5000 ltrs x 2 nos. + Inner 4000 ltrs x 3 nos. / Inner 6000 ltrs x 2 nos.	8.45	2.2
*24000	Domed end 5000 ltrs x 2 nos. + Inner 4000 ltrs x 2 nos. + Inner 6000 ltrs x 1 no.	9.20	2.2
26000	Domed end 5000 ltrs x 2 nos. + Inner 4000 ltrs x 4 nos. / Inner 6000 ltrs x 2 nos. + Inner 4000 ltrs x 1 no.	9.90	2.2
*28000	Domed end 5000 ltrs x 2 nos. + Inner 6000 ltrs x 3 nos. / Inner 6000 ltrs x 1 no. + Inner 4000 ltrs x 3 nos.)	10.50	2.2
30000	Domed end 5000 ltrs x 2 nos. + Inner 4000 ltrs x 5 nos. / Inner 6000 ltrs x 2 nos. + Inner 4000 ltrs x 2 nos.	11.40	2.2

Installation Procedure

- Excavation:** Excavate a pit approximately 600mm larger than the size of the tank.
- Bed preparation:** Provide 150 mm (6") thick bedding of granular material with proper compaction to form a even, flat and sufficiently hard foundation for the tank. Ensure that no sharp object/stone are protruding which could puncture the tank.
- Positioning the tank:** Lower the tank and position it in the pit ensuring that it is vertical, centrally positioned, correctly aligned and leveled using spirit level.
- Fill the water in the tank and then carry out backfilling:** Fill the tank with tap water up to $\frac{1}{3}$ rd of its capacity before starting backfilling. Backfilling and water filling should be carried out simultaneously ensuring that the backfilling level never exceeds the rising level of water within the tank until the water reaches the maximum level. The width of the backfilling should be minimum 300mm (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 250mm 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.
- Make the pipe connections:** When the level of the backfilling reaches the underside of the inlet pipe invert, inlet outlet connections should be made.
- Providing cover/lid:** Select the appropriate cover as per the site loading conditions and place it on the top of the tank. In case of pedestrian movement where vehicles are not expected, plastic light weight cover is recommended. This plastic cover should be filled with concrete after placing it on the tank. For vehicular traffic, GRP cover of appropriate load class is recommended. For GRP covers, 150mm thick PCC (min M150 grade) beneath the cover frame for full width of tank is recommended.
- In case of modular tanks, a firm and a stable base or a flat cast-in-situ 150mm thick concrete slab is necessary. It will facilitate the assembly of the modular tank on a flat surface and will also help to distribute the weight of the full tank like a raft.

(For more details please refer to the user guide supplied with the product.)



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 to and the final design rests with the engineer or architect of the project.

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