



## **IS 17729 : 2021- Agro-Textiles Flexible Water Storage Tank for Agriculture and Horticulture Purposes Specification**

The "Agro-Textiles Flexible Water Storage Tank for Agriculture and Horticulture Purposes" is a specialized water storage solution designed to meet the water needs of agricultural and horticultural applications.

Applications: Primarily used for irrigation, livestock watering, rainwater collection, and emergency water storage in agriculture and horticulture. They are essential in areas with unreliable water access, providing a reliable source for crops and plants even during dry spells.

The Indian Standard IS 17729: 2021 provides specifications for flexible water storage tanks used in agriculture and horticulture, particularly in remote or hilly areas. These tanks, categorized by capacity (ranging from 2 kL to 100 kL), are designed to store rainwater and are made from a combination of inner and outer layers of specialized materials. The inner layer consists of polyethylene films, while the outer layer uses UV-resistant polypropylene fabric. Tanks are equipped with inlet and outlet butterfly valves, and a system to handle overflow. The standard specifies requirements for construction, materials, testing (including tensile strength, puncture resistance, and leak tests), and handling guidelines. Each tank must be marked with information about the manufacturer, type, capacity, and dimensions.

The Indian Standard IS 17729: 2021 confirms that these agro-textile flexible water tanks offer a versatile, durable, and convenient water storage solution tailored to the unique demands of agricultural and horticultural operations.