



## Cultivation of Water Chestnut

(\*Sarjesh Kumar Meena<sup>1</sup>, Krishna Jat<sup>2</sup>, Tendul Chouhan<sup>3</sup> and Deshraj Meena<sup>4</sup>)

<sup>1</sup>Babasaheb Bhimrao Ambedkar University, Lucknow (226025), Uttar Pradesh

<sup>2</sup>Rajasthan Agricultural Research Institute Durgapura, Jaipur, Rajasthan

<sup>3</sup>College of Horticulture and Forestry, Jhalrapatan (326023) Jhalawar, Rajasthan

<sup>4</sup>Department of Horticulture, College of Agriculture (SKRAU) Bikaner, Rajasthan

\*Corresponding Author's email: [sarjeshmeena5757@gmail.com](mailto:sarjeshmeena5757@gmail.com)

Water chestnuts, also known as Chinese water chestnuts or *Eleocharis dulcis*, are not true nuts but rather aquatic vegetables commonly used in Asian cuisine. They grow in underwater mud, typically in marshes, ponds, and slow-moving water bodies. Water chestnut (*Trapa natans*) is an aquatic plant known for its nutritious, crunchy, and versatile corms. This article aims to provide a comprehensive overview of water chestnut cultivation, environmental requirements, cultivation techniques, post-harvest handling, and economic significance. Here are the basic steps for cultivating water chestnuts:

- Select a Suitable Location:** Choose a site with access to a water source that remains consistently shallow (about 6 inches to 1 foot deep) throughout the growing season. The water should be clean and free of pollution.
- Prepare the Planting Area:**
  - Remove weeds, rocks, and debris from the chosen area.
  - You may need to dig a shallow bed or create a raised bed to control water depth and ensure good drainage. A depth of 4-6 inches is ideal.
- Planting Tubers:**
  - Water chestnuts are grown from small corms or tubers, which can be purchased from garden centres or online.
  - Plant the tubers about 1-2 inches deep in the prepared bed. Space them 4-6 inches apart with rows 12-18 inches apart.
- Maintain Water Levels:**
  - Maintain a consistent water level of 1-2 inches above the soil surface throughout the growing season. You can use a hose or irrigation system to ensure a steady water supply.
  - Water chestnuts are aquatic plants, and they require a lot of water to thrive.
- Fertilize:**
  - Add a balanced aquatic fertilizer to the water periodically to provide nutrients for the plants.
  - Follow the manufacturer's instructions for the recommended dosage and frequency.
- Weed Control:**
  - Keep the planting area free from weeds, as they can compete with the water chestnuts for nutrients and space.
- Harvest:**
  - Water chestnuts are typically ready for harvest 5-6 months after planting when the leaves turn yellow and start to die back.

- To harvest, gently dig up the tubers from the mud. Be careful not to damage them.
  - Wash and clean the harvested tubers before using them in recipes or storing them.
8. **Storage:**
    - Store harvested water chestnuts in a cool, dark place. They can also be stored in the refrigerator for a few weeks.
    - If you want to keep them longer, you can blanch and freeze them.
  9. **Overwintering :**
    - In colder climates, you may need to overwinter the tubers indoors. Dig them up before the first frost, clean them, and store them in a cool, dry place until the next planting season.
  10. **Propagation:**
    - You can save some of the harvested tubers for replanting in the next season. Make sure they are healthy and disease-free.
  11. **Remarks :**
    - Water chestnuts can be a rewarding addition to your garden, but it's essential to provide the right growing conditions and consistent water to ensure a successful harvest.

## References

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