



# Pitcher Irrigation in Salinity Management for Production of Brinjal Crop

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## Abstract

Pitcher irrigation, an indigenous technology, alternative to drip irrigation is one of the cheapest among the latest advancement of localized method of small scale irrigation and found most efficient of using saline irrigation water with blending with fresh water. A study was undertaken at the Kakdwip, South 24 Pargona, West Bengal to investigate the effect of various combinations of saline and sweet water through pitcher pot irrigation on yield and quality of pre-kharif Brinjal. Five treatment combinations were taken viz., 100% sweet water treatment, 75% sweet water + 25% saline water treatment, 50% sweet water + 50% saline water treatment, 25% sweet water + 75% saline water treatment, 100% saline water treatment. All the treatments are applied during the cultivation of pre-kharif brinjal which is used as test crop in RBD design with four replications. The yield and yield component of each treatment was recorded. It fundamentally expanded with the utilization of different kind of treatments over control. The consequences of present examination prompted recommend that use of different mixes of saline and sweet water through pitcher pot water system builds development and yield of brinjal crop. Although the mixing of sweet water in different level with saline water discovered good execution towards improving the yield of brinjal. Thus use of equivalent extents of sweet and saline water might be helpful for improving the saltiness requirements for brinjal in the above zone.

**Keyword:** Pitcher pot, Saline soil, Brinjal

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The coastal saline soil of West Bengal suffers from the different production constraints, of which unavailability of good quality irrigation water is the major one. Pitcher irrigation is one of the cheapest among the latest advancement of localized method of small scale irrigation and found most efficient of using saline irrigation water.

Pachpute (2010) reported that a package of water management practices including pitcher irrigation method and water conserving techniques of application and mulching is experimented for sustainable growth and improved production of cucumber crop in Makanya village in North Eastern Tanzania.

It is likewise focused to be a self-regulative framework with a high-water saving potential which offers advantage for mitigating root zone saltiness to keep up positive soil moisture and have great abilities for water system of different sorts of yields. Now-a-days interest for brinjal as a natural product vegetable is expanding quickly among the vegetable customers taking into account its better organic product tone, size and taste.

**How to cite this Article:** Rahul Adhikary, Arunabha Pal, 2020, Pitcher Irrigation in Salinity Management for Production of Brinjal Crop, 8(Special Issue) : p 35–38.

**Source of Support:** None; **Conflict of Interest:** None