

Reducing clogging in drip irrigation by reducing hardness using Lime treatment has made an SOP (Standard Operating Procedure) for the project to reduce the clogging in drip irrigation by reducing the hardness using Lime treatment. I have made an SOP (Standard Operating Procedure) for this.

Then I checked the initial hardness is as follows,

Permanent Hardness- **668 PPM**.

Temporary Hardness- **652 PPM**.

Total Hardness- **1320 PPM**.

Checked hardness after applying lime.

Permanent Hardness- **850 PPM**.

Temporary Hardness- **150 PPM**.

Total Hardness- **1000 PPM**.

- Check the **TDS**-

Initial TDS- **1060PPM**

Reduced TDS - **835PPM**

The lime required for this is as follows:

Therefore, for 2 liter = 0.2 g of lime

then 1000 liters = 100 g of lime and for 30 days 3 kg of lime are required.

Suggestion:

Cost of lime:

The cost of 1 kg lime is 10 RS.

10RS = 1 Kg

For 1000 liter = 30RS lime is required.

Problem:

If the (Total Dissolve Solids) TDS meter is not calibrated then readings are wrong.