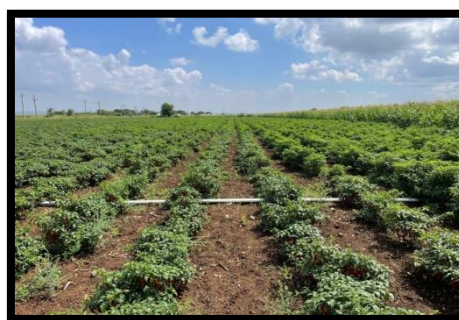


## COLLOIDAL SILVER FIELD PERFORMANCE TESTING IN CHILLI (*Capsicum annum*)

---

Colloidal silver is a completely bio degradable biocide with least residual effect and leaves no residues on the products applied. It is an eco friendly non toxic universal disinfectant capable of eliminating all types pathogenic microbes like fungi, bacteria, amoeba and viruses. It has multiple applications in many sectors namely aquaculture, agriculture, poultry, food beverages, pharmaceuticals and hospitals where disinfection of microbes load plays an important role for quality in terms of product/service.

A pilot field study was under taken to find out the effect of colloidal nano silver on growth, yield and diseases affecting chilli crop. The study was conducted in a farmer field at Thatagaripalli village, Tadipatri taluq of Anantapur District, Andhra Pradesh. A commercial formulation of colloidal silver (NANOSIL) developed by AARA Biotech Company, Hindupur, Sathya Sai District, Andhra Pradesh was used for testing. The chemical was applied at a concentration of 0.25 percent as foliar sprays at 20 days intervals starting from planting in the main field. Observations were recorded periodically on growth, yield and disease incidence.



**Colloidal silver applied plants exhibiting good vegetative growth and fruit yield**

The results of the field study revealed that the nano silver formulation ( NANOSIL) was found having growth promoting and yield enhancing ability (figs.1,2,3 & 4) upto 10-15 percent besides suppressive effect on fungal pathogens causing Fruit rot, Leaf spot and Powdery mildew and viruses affecting chilli crop to a greater extent. Therefore colloidal silver can be used as an alternative to other fungicides for control of fungal and viral diseases affecting chilli crop.