

Impact of Subsurface Drainage System on Ground Water Quality of Kalipatnam Pilot Area

Ch Sreenivas, P Sreedevi and R Ganesh Babu

A.P. Water Management Project, Net work Centre, Undi-534 199 (AP)

ABSTRACT

Reclamation of saline, saline-alkali and waterlogged soils formed due to the intrusion of sea water/poor shallow ground water quality can effectively be done by the sub-surface drainage (SSD) technology. One year after installation of SSD system, ground water salinity in the pilot area (27.23 dS/m) has significantly reduced to 20.45 dS/m, where as control area ground water salinity has slightly increased from 36.66 dS/m (May,05) to 37.65 dS/m (May, 06). Two crop seasons after installation of SSD system, EC of the groundwater have been reduced considerably. At Kalipatnam pilot area, EC of groundwater has reduced by 25 percent due to installation of SSD system.