

Study of Open Sub Surface Drainage System in Reclamation of Salt Affected and Water Logged Soils of Mutluru Channel Command in Krishna Western Delta of Andhra Pradesh

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ABSTRACT

A study was conducted in the farmers fields of drainage pilot area located in pathareddy palem village under Mutluru channel command of Krishna Western Delta, Guntur District to evaluate the performance of Open Subsurface Drainage system (OSSD) for improving the grain yield of Rice under saline and water logged conditions for three consecutive seasons starting from Kharif,2005. The grain yield increased from 2.2 t/ha to 4.5t/ha over a period of three years indicating an over all increase of 104% due to installation of OSSD. The cropping intensity and non saline area were also increased to 100-153% and 6-40% respectively.

Key words : Cropping intensity, Soil salinity and Water logging