

Impact of Open Sub Surface Drainage on Reclamation of Waterlogged and Salt Affected Soils

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ABSTRACT

The Andhra Pradesh Water Management Project has conducted detailed study in the farmers fields of drainage pilot area located in Pathareddy Palem village under Mutluru channel command of Krishna Western Delta of Guntur district in Andhra Pradesh 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⁻¹ to 4.9 t ha⁻¹ over a period of four years indicating an over all increase of 123% due to installation of OSSD. The cropping intensity and non saline area were also increased to 100-158% and 6-40%, respectively.

Key words : Water logged, Salt affected, Open-Sub surface.