

# **Influence of Phosphorus Levels, FYM and PSB on Soil Physical, Physico-chemical and Biological Properties in *Bt* Cotton**

**V S L Raj Rushi K, P Prasuna Rani, P Anil kumar, P R K Prasad, and P Madhu vani**  
Department of Soil Science and Agricultural Chemistry, Agricultural College, Bapatla 522101,  
Andhra Pradesh

## **ABSTRACT**

A field experiment was conducted in a clay loam soil at Agricultural College Farm, Bapatla, Andhra Pradesh to study the individual and combined effect of inorganic phosphorus, farm yard manure (FYM) and phosphorus solubilising bacteria (PSB) on soil properties using *Bt* cotton as test crop. Results revealed no significant influence of treatments on bulk density, pH, EC and CEC of soils. However, FYM treated plots recorded significant influence on OC content. Bacterial counts showed significant increase in soils treated with RDP + PSB + FYM when compared to RDP alone. The alkaline and acid phosphatase activities, though slightly high in treatments integrated with all components, were not influenced by the treatments significantly.

**Key words :** Bacterial population, Phosphatase activity, Organic carbon.