Effect of Dairy Factory Effluent on Soil Enzymes in Greengram and Pearlmillet Crops

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ABSTRACT

A pot culture experiment was conducted during *rabi,* 2009 at S.V.Agricultural college, Tirupati (Andhra Pradesh) to characterize Dairy factory effluent (DFE) with respect to soil enzymes and also to study the effect of Dairy factory effluent on soil enzymes activities in greengram and pearlmillet crops. The urease, dehydrogenase, acid and alkaline phosphatase and arylsulfatase activities were increased with increase in Dairy factory effluent application from DFE_0 to $DFE_{3.0}$ irrespective of crops studied. Soil enzymes activities such as urease, dehydrogenase and arylsulfatase were higher in greengram crop while acid and alkaline phophatase activities were higher in pearlmillet crop. The interaction effect between crops and levels of Dairy factory effluent was significant on urease and dehydrogenase activities at all stages of crop growth.

Key words : Dairy factory effluent, Greengram, Pearlmillet, Soil enzymes.