

# **Influence of Sewage Sludge, Urban Compost and FYM on Yield, Available Major Nutrient Status and Enzyme Activities of Soil in Tomato (*Lycopersicon esculentum Mill*)**

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## **ABSTRACT**

Effect of sewage sludge, urban compost and FYM @ 0, 20 and 40 t ha<sup>-1</sup> on yield, available major nutrient status and enzyme activities (urease, dehydrogenase, acid phosphatase and alkaline phosphatase) of soil in tomato during *kharif season* of 2003 under green house condition was studied. Results showed that increasing levels of fertilizers from zero fertilizer application to 100 per cent recommended dose of fertilizers (RDF) as well as manure (0 to 40 t ha<sup>-1</sup>) addition significantly increased the yield, major nutrient status and enzyme activities of soil. Among the manures, the sewage sludge was superior in increasing the parameters mentioned earlier. Combined application of manures and fertilizers also significantly increased the above said parameters. Among all the combinations, the highest yield, major nutrient status and enzyme activities of soil were obtained with sewage sludge @40 t ha<sup>-1</sup> along with 100 per cent RDF, closely followed by sewage sludge @40 t ha<sup>-1</sup> along with 75 per cent RDF.

**Key words** : Sewage Sludge, Urban Compost, FYM, Tomato, Major nutrient status and Enzyme activities of soil.