An Asian Journal of Soil Science, **December 2007, Vol. 2 (2) : 113-117**

EFFECT OF ORGANIC MANURES AND BIOFERTILIZERS ON NUTRIENT CONTENT AND NUTRIENT UPTAKE IN TURMERIC cv. BSR 2

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Accepted : *November, 2007*

ABSTRACT

The investigations on turmeric (*Curcuma longa* L.) were carried out at the College Orchard, Department of Spices and Plantation Crops, Horticultural College and Research Institute, Tamil Nadu Agricultural University, Coimbatore, to find out the effect of different organic manures and biofertilizers on turmeric with reference to nutrient content and nutrient uptake. The experiment was laid out in split plot design consisting four organic manures viz., farmyard manure, vermicompost, digested coirpith compost and 50 per cent of recommended dose of fertilizers in the main plot. The sub plot treatment consists of biofertilizers like *azospirillum*, phosphobacteria and VAM with 32 different combinations. The experimental analysis revealed that application of farmyard manure + *azospirillum* + phosphobacteria + VAM (M_1S_7) recorded the higher nitrogen content (0.87 per cent), phosphorus content (0.21 per cent), nitrogen uptake (291.74 kg ha^{-1}) and phosphorus uptake (70.42 kg ha^{-1}). While the application of digested coirpith compost + *azospirillum* + phosphobacteria + VAM exhibited (M_3S_7) expressed greater potassium content (0.90 per cent) and potassium uptake (285.05 kg ha^{-1}).