



RESEARCH PAPER

Physical properties of farmyard manure at different depths of manure pit

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Abstract : Farmyard manure refers to the decomposed mixture of dung and urine of farm animals along with litter and left over material from roughages or fodder fed to the cattle. On an average well composted farmyard manure contains 0.5 per cent N, 0.2 per cent P_2O_5 and 0.5 per cent K_2O (Reddy, 2005). Farmyard manure is the nutrient enriched organic manure used for agriculture in order to increase the fertility of soil. The manure consist of dung, urine, and fodder waste. The main purpose of this research was to examine the physical properties like *viz.*, bulk density, moisture content, angle of repose, angle of friction of farmyard manure at different depth of manure pit. Study was conducted along the five different depth of manure pit from 0 to 50 cm at 10 cm distance each. The bulk density value along the five depth of manure pit was 230, 248, 248, 286 and 300kg/m³, respectively. The moisture content value along the five depth of manure pit was 15.73, 16.8, 18.5, 19.3 and 21.2 %, respectively. The angle of repose along the five depth of manure pit was 41.9, 43.2, 47.13, 44.4 and 52.1°, respectively. The angle of friction along the five depth of manure pit was 30.7, 32.8, 33.7, 36.2 and 36.53°, respectively.

Key Words : Farmyard manure, Physical properties, Manure pit

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