

Characteristics of Textile Sludge Obtained from Nuziveedu Seeds Limited, Guntur District of Andhra Pradesh

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ABSTRACT

An experiment was conducted to study the characteristics of textile sludge obtained from Nuziveedu Seeds Limited, Chandole of Guntur district of Andhra Pradesh. The textile sludge was collected and shade dried for physico-chemical and chemical analysis in department of Environmental Science. Analytical data showed that the textile sludge was neutral in reaction (pH of 7.18) with EC of 1.93 dS m⁻¹ and organic carbon content of 13.41percent. The textile sludge was found to have high organic carbon percent. N, P and K contents of textile sludge were 2.6, 0.2, and 2.8%, respectively. Micronutrients namely Zn, Fe, Mn and Cu were found to be 19.5, 468.1, 32.0 and 24.3 ppm were within permissible limits. Whereas in case of heavy metals Cd content has exceeded SEPA limits. However Cr content was found to be higher than Municipal Solid Waste Rules and all others was within permissible limits. This indicates that various other options can be explored for its suitable management other than the conventionally used options like landfilling.

Keywords: *Characteristics, Physic-chemical, Textile sludge.*