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Study on Solid Waste Management in TKR Educational Society -Hyderabad

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Abstract: India being an agricultural country has a present population of approximately 1,405.2 million with 29 states and 7 union territories. The hassle of SWM in India is growing noticeably because of rapid urbanization and population boom. Out of the total waste generated from the industrial, residential, commercial, and agricultural areas a massive amount of waste is generated from residential areas comprising municipal waste. Solid-waste management is the collection, handling, and disposal of solid waste that is thrown away after serving its purpose or becoming unusable. We collected all the information on the solid waste generation rate at the TKR Educational Society. We have studied information on solid waste generation in different months (December, January, and February). TKR Campus. The food waste is 15%, paper waste is 12%, plastic is 13%, concrete waste is 2.17%, vegetable waste is 35%, electric waste is 3.04% and wood waste is 4.3%. the highest percentage of food waste is more. The physio-chemical parameter like moisture content, bulk density, PH value, carbon, nitrogen, and carbon and nitrogen content find in different blocks K9 block, R9 block, boy hostel, pharmacy, and canteen. We find that the mean value of moisture content is 51.2, bulk density is 297.9, PH value is 6.4, Carbon is 52.58, Nitrogen is 6.5, and C/N is 8.

Keywords: Solid waste, industrial, residential, commercial, and agricultural

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