

COMPARISON OF EMPIRICAL MODELS FOR THE DETERMINATION OF CALORIFIC VALUES OF MUNICIPAL SOLID WASTE IN KANO, NIGERIA.

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ABSTRACT

This paper compares the results of calorific values of municipal solid waste in Kano, Nigeria determined using empirical models. Comparison of the calculated calorific values from all the models shows wide variation and range from 772.38 kcal/kg - 5,034.28 kcal/kg. The physical model equation gives much higher values of calorific values of the waste than the other three model equations. The variability of the calorific values from the different models used confirms previous researches results that showed difference in calorific values between empirical models developed.

KEYWORDS: Municipal Solid Waste, Calorific Value, Empirical Models