

# SUSTAINABLE UTILIZATION OF MALAYSIAN AGROWASTE



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## CHAPTER 2

# AGROWASTE TOWARDS SUSTAINABLE BY-PRODUCTS: MALAYSIAN PERSPECTIVES

Ahmed Jalal Khan Chowdhury and A.B.M. Helaluddin

### Introduction

Waste is defined as any material that has been identified as having no further use in production processes, or which has not yet been fully utilised, i.e. the leftovers from production and consumption. Classification of wastes is mainly based on their physical characteristics such as solid, liquid, sludge, semi solid, etc. Further classification can be done on their hazardous properties such as chemical waste, biological waste, clinical waste, nuclear waste, etc. Another classification is based on their origin and location of the process or activity such as industrial waste, urban municipal domestic waste, agricultural waste, etc. However, wastes are sometimes unavoidable result of human activity. They include plant materials from agricultural, industrial, and municipal wastes and residues.