

## Waste Management through Soil Amendments: A Sustainable Agricultural Approach for Climate Change Mitigation

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### Abstract:

Soil is the soul of endless life that promotes diverse micro flora, can be used to promote sustainable agriculture, and can also be used to safely handle agricultural waste that could otherwise pose a serious threat to life and the environment. Through various agricultural activities, various types of waste are generated on a large scale. It covers animal waste, processed food waste, crop waste, fruit and vegetable waste, pesticides, insecticides and herbicides on a wide scale, etc. Any of the waste that remains unused is either burned or discarded close to contaminating, polluting, harbouring pathogenic microbes that cause diseases and severe removal problems. Therefore, it can very well be used as organic modification rather than disposal and viably reused for the production of compost such as manure to fulfill the wholesome necessity of harvests or can be used as soil modification. Truth be told, the method of composting and anaerobic digestion speak to entrenched waste management cycles. Thinking about the production of plant supplement inadequacy in the crop sector, higher expenditure and low efficiency of chemical/synthetic fertilizers, cycling and proper waste management helps to reuse and can be used flexibly as soil change for plant supplements is becoming more important for plant supplement renewal, promoting soil well-being and improving soil health, reducing pollution, Sustainable waste management is also one of the most critical aspects of waste management, since there are threats to the environment, human health, quality of life and the economy without sustainable waste management.