RURAL TECHNOLOGY DEVELOPMENT CENTRE

GOVERNMENT COLLEGE OF ENGINEERING KANNUR

BIOCHAR CHARGING FOR WASTE MANAGEMENT AND FERTILISER APPLICATION

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ABOUT THE PROJECT :

Biochar is obtained from biomass when subjected to thermo chemical conversion process under controlled temperature and oxygen content. Biochar is rich in organic carbon, nutrients such as nitrogen, phosphorus, pottassium and also has high porosity and water holding capacity. It can act as an effective carrier medium for inoculums for composting and also as a fertilizer in agriculture. Thus the use of inoculated bio char would increase the composting rate of solid waste and thereby providing a better alternative against the prevailing techniques of solid waste management.

OBJECTIVES :

1. To charge biochar using suitable inoculum for enhancing the properties.
2. To provide better alternative against the prevailing techniques of solid waste management.
3. To disseminate the technology to the society.

OUTCOME :

Using charged biochar will accelerate the rate of decomposition of organic solid waste. Biochar is produced from biomass, a bi-product of various industries. It when dumped into soil or if burnt would create environmental pollution. The use of locally available waste as biomass would make it more approachable to common man. Keeping in view of all these concerns and feasibility, the use of inoculated biochar is suggested as an alternative, so as to provide the common people with cost effective and sustainable waste management systems.