

# Soil Conservation

## Eco-Char: Converting waste to energy and developing cultivable land



Storage and disposal of raw poultry manure has become an environmental problem because of the associated air, water and soil pollution. Landfilling the poultry litter leads to greenhouse gas emissions and loss of valuable resources. Poultry manure begins to decompose immediately after excretion releasing ammonia which, in high concentrations, can have adverse effects on the health and productivity of birds, as well as the health of the farm workers. We are generating around 51k tons/year of chicken manure that is expected to be 204k tons/year within 4 years' time.

Keeping three principles of Al-Dabbagh group in mind, we came up with a solution to deal with this waste and convert it to add value into the community.

Our plan is to install a Pyrolysis plant that would help in converting solid waste to eco-char and energy. Eco-char is a very high level carbon negative fertilizer. We will be able to generate around 40 tons' eco-char on a daily basis. Using eco-char as a fertilizer would help in cultivating an arid land. Most importantly, energy generated through the pyrolysis plant would be enough to run our slaughterhouse and rendering plant.

