

Name of project : Production of Organic fertilizer from civilian solid waste of Mosul city .

Aims and important:

There is a real need for develop a plan for the management of solid waste in the city of Mosul. It is well known that the issue of solid waste received locally and worldwide attention because of the inherent significant risks and what is received heavy burdens on society and all officials.

Given the reality of the deteriorating Solid Waste Management and deformation aesthetic of the city of Mosul (that have already named Mother of Two Springs)

and despite the fact that the distinguished Council of Nineveh province is made to address the waste problem of financial allocations (6-10) billion dinars a year,

where they are generating about (1000 - 1400) tons per day of solid waste alone as well as industrial waste and residues of construction and agricultural operations. It is estimated that is collected and submit them about (40%) only without treatment and then thrown in the open landfill , this without the sort of dangerous and medical ones, in particular, leading to pollution of air and water resources, pollution and visual rest of the components of the environment, and the consequent health risks of serious due to the accumulation of insects and rodents tanker diseases.

Scientific studies have shown that solid waste components in the northern city of Mosul are composed of the following ratios: (62%) organic materials, (16%), plastic (11%) Paper (4%) fabrics, (2 %) Glass, (2%) and metal (3%) and other materials.

We would like to show that we would prefer to go to work toward the development of a plan for (**the production of compost**) from the nature of agricultural activity in the Nenawa governorate (Iraq's bread basket) requires, in addition to its advantages it does not leave any residue in the case of the exploitation of waste to produce compost which promotes the re-use of glass and plastic materials cellulose (paper and cardboard) and metal materials, then the remainder will be part of the fermentation process, if we assume the presence of wood and stones will be treated as part of the soil that will be fertilized originally.

Area of study :

The completion of the project area includes the left side of the city of Mosul and accessories.

Time required to achieve the project:

(2-3) years (at the continuing stability and security)

Plan of work:

- 1- The establishment of fermentation waste plant.
- 2- Receiving the civil solid waste.
- 3- Doing the primary sorting of waste.
- 4- Feeding organic waste to the fermentation plant.
- 5- Biogas extraction product for use as a biofuel.
- 6- Extract the Soil conditioner outputs from the fermentation plant.
- 7- Mobilization of compost for the purpose of marketing.

Requirements:

- 1- Fermentation plant for civil solid waste.
- 2- Coordinating with the municipality of Mosul city to transport waste to the fermentation plant.
- 3- A dedicated staff to run the fermentation plant.
- 4- Electrical power generator to feed processing work site when needed.

Costs:

Fermentation plant (buildings and equipment) \$ 80 million

Wheels business of \$ 25 million

Staff salaries run \$ 5 million

Total cost \$ 110 million