**OUR PROCESS OF GETTING ENACT-ENGINE BIO GAS**

**STEP 1: Building an Anaerobic Digester with a 20L Water Dispenser**

* Measure the length of the bottle and cut an equal length of the Pvc pipe.
* Measure the circumference of the Pvc pipe and make a hole on the water bottle using the calculated circumference.
* Insert the Pvc pipe into the water bottle through the hole created. The Pvc pipe should be about 2 inches above the bottom surface. This pipe serves as the inlet for poultry droppings.
* Created another hole by the side of the bottle few meters away from the base of the bottle.
* Insert a short pipe into the hole to serve as the exit of the decomposed slurry.
* Gum the fixed pipe using Pvc gum
* Cover the inlet and outlet Pvc pipes using Pvc caps
* Cover the bottle with T-tap and connect gas pipe. The other end of the pipe will be connected to the gas storage (gas cylinder).
* Painted the bottle with black gloss paint to prevent the growth algae has if left to sunlight rays will permit oxygen which is not needed.

**STEP 2: Getting the poultry droppings from poultry farms**

* Proportionately mixing the poultry droppings with water to form slurry
* Pouring the slurry into the bottle {anaerobic digester}. Bacteria’s act on the slurry by decomposing it to release methane gas and some impurity. This gas is expected to release after a week to 2 weeks of mixing and packing.

**STEP 3: Expected Outcome –“Methane Gas”**

The gas released is connected to the gas cylinder which serves as the storage through the pipe.