TPR (Thermoplastic Rubber) Tubing

-The current design specs require a 6ft main line that runs along one side of the green house with sub-main lines branching off the main every 2ft (using variation as needed). The sub-mains must run 5.5ft from the main to cover the entire area of the greenhouse.

-Our proposed idea is using TPR tube for the main and sub-main lines and using plastic connectors. There are two separate companies in Cameroon that sell TPR tubing and plastic connectors.

-TPR is a viable option due to its local availability. It is fairly durable, flexible and cost effective. TPR is partially recyclable, since the plastic can be extruded to separate it from the rubber. TPR can withstand the high temperatures that will be experienced in Cameroon due to its proximity to the equator. Since TPR is flexible, it should be fairly easy to punch holes in the tubing to let water drip onto the plants. If the tubing would happen to get clogged, the system could be disassembled and cleaned out with a snake brush. TPR also meets most FDA requirements.