

Understanding the Needs and Requirements

What needs to be achieved: A low cost drip irrigation system using resources locally available in Cameroon and can be assembled quickly and cost effectively?

Asked questions:

1. What is a list of resources readily available in Cameroon?
2. How much do each of these resources cost?
3. How efficient are these resources?
4. How easy to clean will these materials be?
5. How much water per plant needs to be released per microtube?
6. How much water can be used?
7. Will we fit the dimensions of the garden while staying in our budget?
8. What material will have the easiest maintenance and which is the cheapest?
9. How much water will be wasted with each material?

Essential Requirements

1. Main Line: polythylene microtube 25m - \$35
2. Sub Main Line- polythylene sub main tubing
3. DIG 15-006 compression t valve connector - \$0.72 x 8
4. Valve to regulate water pressure

-need a valve system connecting the sub lines with the main line that does not waste water and allows for steady flow of water throughout the process

-use material that will waste least amount of water in a water scarce country

-find materials that are possible self cleaning just with water pressure?