

18/ENG04/042



Operator of Energia / Oando Joint Venture
Ebendo (Ex-Obodougwa)/Obodeti Fields OML 56

Name of application: IR (Irrigation System)

AIM:

The application is used to aid in the irrigation of the farmland, especially during the dry and dry seasons. It can also tell the temperature of the soil, moisture and alert personnel if there is a shortage of water.

Components

- ① Hardware: Sensors, thermometer and moisture meter
- ② Software: Program, alert system, access control management

Components

- ① Hardware: Sensors, thermometer, moisture meter, alarm, clock
- ② Software: Program, alert system, access control management system, password



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(A) Design: It should be a big mobile machine so that it will be durable and be able to work fast or it should be portable and fixed ^{in various} locations.

Implementation: It should be able to detect when the soil is too dry, alarm should come up when there is no longer water in its reservoir.

Maintenance: If it's the big mobile machine, it should be serviced every month while the portable type will take 2-3 months before servicing.

Planning: Everything should be put down from the writing of the program to the buying of the machine.

Testing: It should be tested after everything to know the fault and error.

Debugging: When errors are found, find way to remove the errors.

Analysis: How efficient is it.

(B) The software must have 3 major programs:
* Program determine temperature of soil and increase moisture by irrigating, Program to set of alarm