BASIC BLOCK DIAGRAM WITH FUNCTIONING

WIFI SENSOR OR ANY OTHER SENSOR FOR WIRELESS DATA TRASNMISSION

Mom diode coupled with antenna

Monochromator

SAMPLE

NIR SOURCE

ADC

SERVER

NIR SOURCE: tungsten halogen source.

SAMPLE: soil.

MONOCHROMATOR: allow only very narrow wavelength to pass through. We will be having 3 monochromator in one device and each monochromator which allow different wavelength to pass, in order to calculate the concentration of N, P, K in soil.

MOM DIODE: to detect the light coming from sample and rectifies this high frequency current.

ADC: convert the analog value to the digital value.

Wifi sensor: to send the data to the server.

SERVER: it contain a software which calculate the concentration from digital value received from wifi sensor.