PROBLEM STATEMENT:

As the field work in agriculture is making hard and it is a tiresome work. The implantation of Technology in agriculture is also. Give a idea to make it automated

ABSTRACT

The Emerging emanate in the Indian Agricultural field is, the current generation is not interested in traditional agricultural techniques but interested in virtual controlling. To make a revolution in Agricultural field, our first step is to electrify Agriculture Vehicles. To make it possible, we have ideated an RC Tiller Machine concept which leads to a better farming and paves a way for wireless technology. The fully electric Remote Controlled tiller is powered on, it checks the environment's humidity level and temperature by using a DHT11 sensor. Based on the predefined condition, if the humidity level and temperature are satisfied, it will notify that it is ready to work. If the condition is not satisfied it will notify you that the weather condition is not good. Once the RC tiller is started, it shows the land via camera. If not, it shows a warning message. It asks the user for the speed, depth. The vehicle is then controlled by the user via remote.If the user moves the joystick forward the vehicle moves forward. If the user moves the joystick backward the vehicle moves backward. If the user moves the joystick rightward the vehicle moves rightward. If the user moves the joystick leftward the vehicle moves leftward. If the user presses the start tiller button the tiller starts tilling at the given depth. If an obstacle is detected by an ultrasonic sensor, it shows a warning. After receiving the warning message, the user can change the path.After completion of work, it gives a plough report at the end of the work. This RC Tiller Machine project contributes trouble free work in agricultural field to the next level.Our project embarks the revolution in agricultural field as it is fully controllable tilling machine.

KEYWORDS

Agricultural – Remote Control – Temperature – Sensor – Warning – Vehicle – Tiller Machine