

KAMADHENUVU: HAY AND WATER DISPENSER FOR CATTLE.

PROBLEM STATEMENT:

Cattle play a major role in helping farmers in agriculture especially in a country like India. Most of the farmers use cattle to plough the land to grow crops. Cattle also give us organic manure to keep the farm land good and fertile for farming. So, protecting cattle is also as equally important as protecting crops. Nowadays, all the living animals are affected towards various diseases and viruses. And statistically most of them are infective and they spread by means of physical contact. One of those viruses is lumpy virus which is affecting cows and buffaloes. If a non-infected cow drinks water from the same source from where infected cattle drinks water the virus spreads. If one such problem is existing right now; we can expect ten more in the future. Hence, to prevent the spreading of these kind of viruses we have come up with an idea called Hay and water dispenser for cattle.

SOLUTION:

Our bot consists of two boxes made up of waterproof wood. They will be aligned side by side. One wooden box will be used for storing dispensed hay and the other will be used for storing water. The hay we will be using must be rolled up in order to make it easy while releasing it. The bot will be programmed so as to dispense one hay roll and a few litres of water every 6 hours. To dispense the hay roll we will be using a conveyor belt on which a few hay rolls will be placed at uniform distances. And the conveyor belt will be powered using a DC motor. So, every 6 hours the motor will be switched on to push the hay roll into the wooden box. For water we need a water source from where water will be pumped into the water box. A solenoid valve will be used to let the water into the water box. Every 6 hours the solenoid valve will be switched on till the required amount of water is poured into the box. In this way we can avoid the spreading of viruses and a farmer can save his time and energy too.