



اَبُو سَيْدِي تَيْكُو لُو كِي مَارَا
UNIVERSITI
TEKNOLOGI
MARA

TECHNOLOGY BLUEPRINT

SMART FISH POND MONITORING AND INSPECTION DEVICE

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1.0 EXECUTIVE SUMMARY

Smart fish pond monitoring and inspection device is a supplier company which distribute a very handful, useful and affordable product. It produces an easy-to-use device which helps life to get easier named as smart fish pond monitoring and inspection device. It allowed people to make their work became easier. It applied two types of technologies which are Material Preservation Technology and Multifunction Technology.

Our innovation product offers a technology which helps to monitor the fish pond at one time. Instead of having many issues in monitoring all the fish pond, our product helps to solve out the issues with make the device to have three functions at one time. It can check pH value of fish pond, to maintain optimum oxygen level in the pond and allow food distribution accordingly.

We are the first Malaysian company that produce the product that we believe it can be our added values and remain competitive to other existing aquaculture sector. Our product comes with high quality of material that can last longer in the water. So that the fisherman can use it for a long time and it was very convenience. Other than that, our refillable content can also regarded as cost saving and sustained development idea as users do not need to buy other fish necessities again every month. Our aim is to produce that is environmental friendly, cost saving and useful to all fisherman.

Our technology that have been mentioned above can be our competitive advantages as we do through case studies, interview, survey of market demand, and distribution of questionnaire at the area in order to get predict the market share. Moreover, our product has been patented under Intellectual Property Corporation of Malaysia (MyIPO) and several laws in Malaysia namely

Patent Act 1983. As a result, no other aquaculture sector can imitate our innovation as we have patented and protect the originality of the ideas according to law.

2.0 PRODUCT DESCRIPTION

We are introducing an easy-to-use device which helps people to monitor their fish pond. The idea is simple yet it comes with many benefits. It hold a small device that have its own function and also a space for fish food. So that the oxygen, pH value of the water and the fish food. The user just need to monitor the device through the computer. This is because the device work when there have the facilities internet such as Wi-Fi.

In fact, the product has refillable content. This is a good news for the fisherman that have a variety kind of fish species. This is because the users can refill the fish food in the space that already provided. So that they do not have to waste their time by refilling the fish food. Once the filling starts to finish, users will able to refill it by the new one.

In term of the device design, it comes with the high quality of material and also the design was very suitable to put into the water. This is because we want the product to stay longer in the water. As for the design, we not make it as big as all of you imagine, we make it just at the right size. We do not take a lot of space because we want the fish to feel free to move everywhere.

3.0 TECHNOLOGY DESCRIPTION

Technology is an application of scientific knowledge for practical purposes especially in industry. In our business, we are introducing technology that is portable, cut-rate and of course simple device that can help people. As a newcomer entrepreneur, we can see the visionaries of technology that contain innovation as we are creating the new products and methods. We realize that in order to stay in this competitive sector we need to stay diligently creating innovation that attract more people to use our form of technology.

In our innovation technology, we are introduced people about the material preservation technology. The material preservation involves the action taken to maintain the quality of the device with desired properties as long as possible. Innovation is vital to maintain progress in technology and engineering. Material safety is now the first priority for the device in the aquaculture sector. Considering from the engineering perspective point of view, Perspex is being chosen as the material of the device due to its ability as good water resistance and insulator. Half of the body of the device will be placed into the water. Meanwhile, there are many electrical components that will be connected and we need to prevent the water from entering the device in order to prevent the short circuit that will damage the electrical circuit.