



CREATIONS de UiTM
INTERNATIONAL MEGA INNOVATION CARNIVAL **2023**
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20th MAY 2023

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CAWANGAN SELANGOR, KAMPUS DENGKIL
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Hanging Pump Station

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ABSTRACT

The hanging pump station is an innovation that should be easy and practical to use for users of all ages. It is designed according to the design of every type of vehicle in this era. The main function of this design is to make it easier for users to fill up with fuel more quickly, easily, and comfortably because everything is only at the tips of our fingers. The methods that we are using to build this hanging pump station are the hydraulic system, electronic system, and development system. The hydraulic system is the system that will make sure that the oil at the bottom of the platform can be channelled to the customer car tank while the electronic system is the system that will show the customer the quantity of oil that has been channelled to the car tank. Furthermore, the development system needs to be made carefully so that customers can use the hanging pump station without any problems in the future. Hanging Pump Stations can easier the driver's affair and shorten their time to refuel their vehicles. It also would indirectly faster the time to queue and prevent congestion and MyPump apps can be used everywhere and every time because it can be functioning although there is no internet connection.

Keywords: Pump station; innovation; user friendly

INTRODUCTION

Our group came up with the idea to innovate the manual oil pump to make it easier and faster for users to fill their oil. The Hanging Pump Station has a nozzle and hose that will automatically lower from the oil pump located on the ceiling of the gas station according to the user's desired height based on the Hanging Pump Station's special application. In short, our product's objective is to make it easier and faster for vehicle users to fill their oil, especially when they are in a hurry or emergency to get to a destination. The Automatic Gas Pump is built with high-quality and safe materials for users. The construction process of the Automatic Gas Pump involves hydraulic, electronic, and structural components. Each part of the Automatic Gas Pump requires a different factory to produce those specific materials. After completing the installation of the hydraulic and electronic systems, the installation of the exterior parts of the station is done using only high-quality materials that meet safety criteria. This is because the project is designed to make it easier for users while prioritizing their rights and safety while at the gas station.

INNOVATION DEVELOPMENT

The methods that we are using to build this hanging pump station are hydraulic system, electronic system and development system. Hydraulic system is the system that will make sure that the oil at the bottom of the platform can be channelled to the customer car tank while the electronic system is the system that will show the customer the quantity of oil that has been

channelled to the car tank. Last but not least, to ensure that this project will be successful, the development system needs to be made carefully so that customers can use the hanging pump station without any problem in the future.

COMMERCIAL POTENTIAL

Based on the findings, Hanging Pump Station received many positive comments in its development and drivers are excited to use it as it gives many benefits to themselves and also their surroundings. After doing some research, this innovative product will surely give many positive impacts towards people, society and also the country. First of all, Hanging Pump Station can easier the drivers' affair and shorten their time to refuel their vehicles. It is because users do not have to choose the position of the nozzle that complementary to their vehicle's fuel fill hole. Also, it would indirectly faster the time to queue and prevent the congestion. In addition, Hanging Pump Station also can be used by users of all aged as it is said to be user-friendly. This is due to the station that offer two different types of oil filling process which are by using the MyPump application and also by manually. Last but not least, the MyPump apps can be used everywhere and everytime because it can be functioning although there is no internet connection.

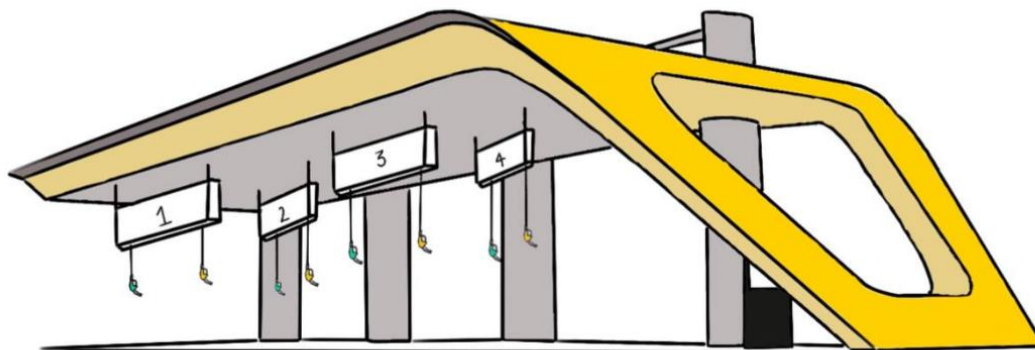


Figure 1: Prototype of Hanging Pump Station

CONCLUSION

Overall, this 'Hanging Pump Station' has the potential to help people in life regardless of age, race, and rank to refuel faster and more comfortably without any constraints. This user-friendly product is also expected to grab more people to use it as it saves time and energy. We hope that this 'Hanging Pump Station' product will be seen worldwide as we want to show that Muslims are able to compete in the field of Science and Technology on a par with other countries. We want to prove to the eyes of the world that Muslims have creativity and high competitiveness.

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