TITLE: INTELLIGENT TRAFFIC LIGHTS

This project is presented in partial fulfillment for the award of the Bachelor of Electrical

Engineering (Hons.)

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ABSTRACT

The Traffic Control system installed at an intersection regulates the behavior of road users to go through the intersection in a sequentially, systematic manner .Hence, increased safety for the road users at the expense of waiting period enabling all traffic to pass through the junction with minimum mishappenings

The waiting period can sometimes not only be delaying factor, but also results an reduced traffic throughput at the intersection . Hence, resulting in unnecessary traffic build up.

This project proposed an application of programmable logic controller (PLC) to controlling automated manufacturing process, that uses as programmable memory for internal storage of instructions that implement specific functions such as logic, sequence, timing, counting and arithmetic to control machines and processes.

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1. INTRODUCTION

Objective of this intelligent Traffic Light System is to provide for a safe and efficient traffic flow through intersection, routes and in road network. Also to assign right-of-way in order to minimize capacity, minimize delay and reduce conflicts and to optimize the safety and efficiency of traffic on flow on the system By this system it will provide orderly movement of traffic, minimize the conflicts movement, increase traffics handling capacity, interrupting heavy traffic flow and to allow other traffics to enter or cross, and coordinated continuous increment of traffic also to promote driver confidence by assigning right-of-way

1.1 Objective of proposed project:

1. Apply programmable logic controller (PLC) to controlling automated instruction which implement such as logic, sequence, timing, counting and arithmetic to control machines and processes

2. To provide for a safe and efficient traffic flow through intersection, routes and in road network

1.2. Scope Of Work

This project is developed based on source by doing the surveying and researching with the help from Dewan Bandaraya Ipoh with by doing this project we have the disadvantages and advantages to the user