**DESIGN AND CONSTRUCTION OF SAFETY GUARD**

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**BEGING A PROJECT ONE WORK SUBMITTED TO THE** **DEPARTMENT OF ELECTRICAL/ELECTRONIC** **ENGINEERING, SCHOOL OF ENGINEERING. IN PRACTICAL FUFILMENT FOR THE AWARD OF HIGHER NATIONAL DIPLOMA (HND) IN ELECTRICAL/ELECTRONIC ENGINEERING FEDERAL POLYTECHNIC MUBI ADAMAWNA STATE**

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**ASTRACT**

*Safety guard is a device is practice of workers who are exposed to handling and maintaining electrically powered equipment. It is a set of guidelines they follow to mitigate electrical hazards and prevent its dangerous effects in case of an incident. Unable to adhere to electrical safety can lead to accidents, near misses, or even fatalities.*

**INTRODUCTION**

A safety device may perform one of several functions. It may stop the machine if a hand or any part of the body is inadvertently placed in the danger area; restrain or withdraw the operator's hands from the danger area during operation; require the operator to use both hands on machine controls, thus keeping both hands and body out of danger; or provide a barrier which is synchronized with the operating cycle of the machine in order to prevent entry to the danger area during the hazardous part of the cycle.

**1.2 AIM OF THE PROJECT**

The aim of this project is design and construction of safety guard is used to break the circuit when a high current flows, so that equipment of the circuit can be saved from damage.

**1.3 OBJECTIVE OF THESTUDY**

The aim and objective of this project research on design and construction of safety guard will be achieved.

1. To design and construct a safety guard device is used to break the circuit when a high current flow, so that equipment of the circuit can be saved from damage.
2. To identify the components used in the construction of safety guard.

**1.4 SIGNIFICANTS OF THE STUDY**

Prevention of Accidents: The primary purpose of machine guarding is to prevent accidents that can lead to injuries or fatalities. These can occur when workers come into contact with moving parts, pinch points, flying debris, sparks, or other machinery-related hazards

**1.5 PROCEDURE**

The following stepped was carefully follow in order to achieved the aim and objective of these research work carryout on "Design and construction of 9volt regulated power supply'. The circuit diagram of a safety guard and it block diagram is clearly defined.

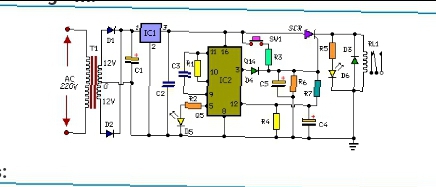


Figure 1: Circuit diagram

**CONCLUSION**

In conclusion, this project has highlighted the importance of safety guards in industrial settings and provided insights into their design and construction. Safety guards act as physical barriers, mitigating hazards and protecting workers from potential injuries. By complying with safety regulations, considering design principles, employing appropriate construction techniques, and implementing regular maintenance and inspections, organizations can enhance the effectiveness of safety guards and promote a safe working environment.