Product and Process Innovation: An Cardinally Ration Materials Dispensation based on GSM and RFID Technology

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Abstract--- Ration card is very important in Tamil Nadu because it acts like a address proof for the person not only that it shows you the completely family details. It is been used to buy the consumer durable goods like sugar, kerosene, oil, rice etc. from the ration shop. The materials which are delivered by the shopkeeper may not be accurate and also it leads to unauthorized distribution to other person. In this paper, proposed a Cardinally ration Materials Dispensation Based on GSM (Global System for Mobile) and RFID (Radio Frequency Identification) technology instead of ration cards. In order to rectify those problem we are going for this technique where the details of the cardholders are been checked using RFID device and later depending upon the material that the consumer purchase he need to pay the amount which will be displayed.

Keywords--- Microcontroller, GSM, RFID, Motor, Solenoid Control Circuits, Mechanical Part

I. INTRODUCTION

If you need to buy the any materials from the rationshop they will enter into their register and they will start to issue the materials. The materials which are delivered by the shopkeeper may not be accurate and also it leads to unauthorized distribution to other person. In this paper, we have proposed cardinally ration material dispensation Based on GSM and RFID Technology to avoid the drawbacks. Today we are facing a number of transport related problems. RFID technology is been used predominately to solve any sort of problem like make the communications and updating the new information in to the system etc. RFID uses only authorized person to access the it. As it consists of an antenna, transceiver and the transponder which are programmed specially.

In this paper, we have designed and implemented an cardinally ration material dispensation Based on GSM and RFID Technology. In this system only authorized person can able to access them. The survey of related works provided in section II. The developed model are shown as follows in figure 1.

II. RELATED WORKS

Today mobile phone is one of the most important devices for every one that is used in communication purpose and used in embedded system to control the devices. Bill generation and bill payment will be made through mobile system. It is very much useful to the consumers and also the merchants.

By using RFID technology prevention of road accident also by vehicle tracking system are been developed and are implemented. This system is may be to reduce the road accident in Indian roads.

By using RFID Exam hall maintenance can be implemented were the candidate can able to find their way to their respective examination hall. The card reader is been provided to the candidate in order to know the examination hall, if the candidate entered into wrong room the buzzer alarm gets switched on, which indicate that the person entered into the hall.

III. PROPOSED METHODS

A. Block Diagram

The block diagram of a cardinally ration material dispensation Based on GSM and RFID Technology is shown in the figure 1.

Figure 1

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IV. RESULT AND DISCUSSION

An cardinally ration material dispensation Based on GSM and RFID Technology used to distribute or vend the liquid or solid material, which is used for Ration materials distribution in ration shops. Initially everyone will be given an RFID instead of current ration card, If they need to buy a material they just need to bring this card to the ration shop and just verify them and get an authentication permission and they can proceed further, if they might have bought the material for this month they will be no flow of materials in the system they will display that the materials is been purchased already if not they will go to the next further step in the system. If the process gets over they will be given the message intimation to every purchase done by using RFID reader.

V. CONCLUSION

In this paper, we have proposed cardinally ration material dispensation Based on GSM and RFID technology instead of ration sheets. The materials which are delivered by the shopkeeper may not be accurate and also it leads to unauthorized distribution to other person. The above drawbacks rectified by this method. By this method ration materials such as sugar, rice, oil etc, are been distributed automatically without the help of human power. After the materials is been dispatched they will get the message to the government stock godown and to the consumer, by GSM technology. This message helps to know the stock details in the godown or in the rationshop depending upon that other materials can be distributed. This system is very accurate, simple and low power consumption, which is used for the real time applications.

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