**IOT BASED RATIONING SYSTEM IN FCI**

**AIM:**

The main aim of the project to distribute the ration goods to authorized persons only by using RFID technology.

**PURPOSE:**

Public distribution system is one of the widely controversial offices that involves corruption and illegal smuggling of goods. All these happen because every job in the ration shop involves manual work and there are no specific hi-tech technologies to automate the job. One of the main concerns is the illegal entry in registers of the shop about the amount of products given to the consumers. The second concern is the weight of the products that are given to the people. Further there is always difficulty for the checking officials to go through the stocks available and the goods given in a register and find out irregularities.

**BLOCK DIAGRAM:**

**MICRO CONTROLLER**

**AT89S52**

**LCD DISPLAY (16\*2 LINES)**

**POWER SUPPLY**

**GPRS MODEM**

**RFID READER**

**DESCRIPTION:**

In this project instead of ration card we are issuing the rfid tag and the person wants to take the ration first he need to check his authentication and if his authentication is success then it will issue the products. Hare each and every product we are attaching the rfid tags and the person wants to collect the items that product need to show in front of the rfid reader, then reader reads the product information and it is considering the product issue. After completing the ration person need to press end button, if end button is pressed then the total data is updated into WEB page by using GPRS modem.

**HARDWARE COMPONENTS:**

1. Microcontroller(AT89S52)
2. RFID reader and tag.
3. LCD
4. GPRS MODEM

**SOFTWARE REQUIREMENTS:**

* KEIL µ VISION4
* Embedded C
* ISP

**ADVANTAGES:**

* Distribution of ration sources to authenticated users only.

**RESULT:**

The implementation of design of ubiquitous fully automated rationing system for public distribution systems is done effectively.