

# **RATION SHOP AUTOMATION USING RFID**

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# **ABSTRACT**

In India many ration shop owners do fraud to customers by not providing the ration or providing ration in less quantity. The person who needs the government facility are not getting it.

To avoid this, a ration shop automation using RFID is done which is unique in its working and solves the fraud done by ration shop owners. In this system each user has given an RFID tag which is used for authenticating the user. When authentication is performed computer displays the amount of ration available to a particular user and user can take partial or full amount of ration from shop.

In this system no other person can take the ration except the person who is having tag. When the user enters the amount of ration then microcontroller automatically opens the funnel and ration is dispensed. The dispensed ration is measured by the load cell which is again connected to microcontroller. Microcontroller measures the quantity of ration output and when quantity entered by user is reached then microcontroller automatically closes the funnel and the database of particular user gets updated.

Advantages of this system is that fraud done by ration shop owners is avoided by weighing less amount of ration or by telling that ration is not available is avoided. No other user can take this facility of particular customer so that customer who is in need of this service gets the benefit of this system.