

E-Rationing

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ABSTRACT

E-government is increasingly used to improve transparency in the government sector and to combat against corruption. E-government is being implemented in more areas of government administration for both the local and national levels worldwide. E-government system developed to reduce corruption. The aim of this paper is to organize and summarize existing theoretical and empirical work on corruption with a view identifying opportunities for further research. this project proposes a transparent and highly scalable Ration Distribution system with authentication for Ration Card Holder. Every time ration is collected by the family is logged into the RFID (smart) card. Family information of the user is also logged in the card. Every time before ration collection, the authorized person needs to go through the verification phase. Once verification is done, quantity that he collects is also logged into the system. Therefore not only false and dummy card ration collection is avoided but at the same time a proper log of quantity par product acquired by the card holder is also tracked. This architecture replaces the conventional paper ration book with RFID based smart card. This Project should get scope in market because now India moves towards corruption free country, before few months our new prime minister announce that “Anna Surksha Yojana” in this scheme every Indian gets their food with very less prize.

Keywords: Ration card, wheat, RFID, sugar, Ration distribution system, Smart card.

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I. INTRODUCTION

Ration card is a very necessary document for every citizen in India. Ration card is used to purchase various necessary items like sugar, oil etc. from the ration shops at a cheaper rate, issued by the government. This ration card also acts as address as well as identity proof. Ration card is needed when you apply for passport, PAN number, driving license etc. Hence, ration card is a very important document. But, the current ration card system has a drawback, that if the items are not sold up to the last of the month, then the shopkeeper will sell it to someone else and take the profit into his pocket and put some false reading in the government record diary. So to avoid this, we move to smart ration card using RFID. Every customer has given a RFID tag which acts as the ration card. This RFID tags has all the information of the customer, needed for taking the ration from the ration shops. The customer has to show this RFID tag to the RFID reader, which is attached to a microcontroller, which reads the information in the tag and

accordingly instruct the shopkeeper to give this much amount of ration to that card holder. The basic purpose to use RFID is to automatically identify and track the attached electromagnetic tag.

II. PROPOSED SYSTEM

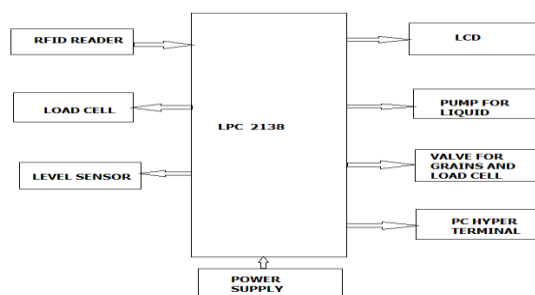
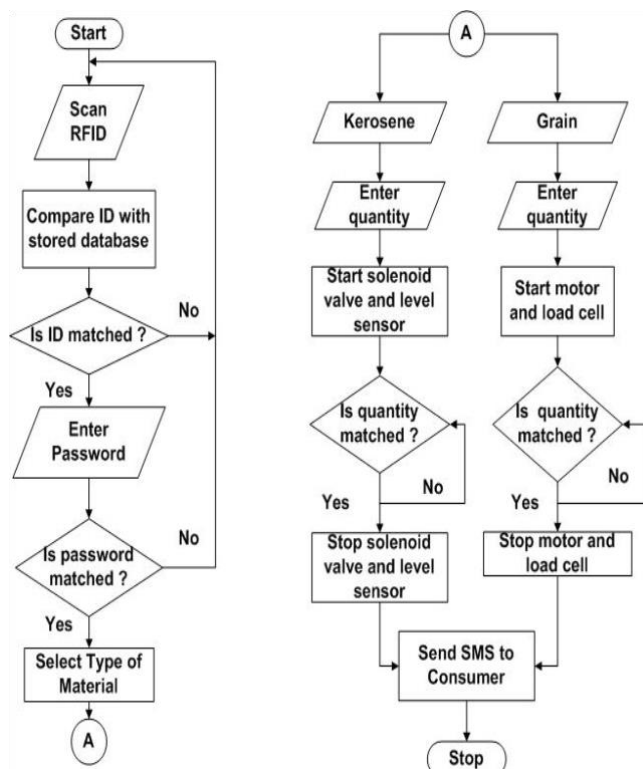


Fig 1. Block diagram

To avoid the corruption in rationing, this system is used. In this system ARM microcontroller ,GSM module to receive and send message, webcam for analyzing the grain quality and it will keep record on pc as well as it send message to customer. To use RFID reader as well as RFID tags used to identify the person id and to give equal grains to customer which allocate by government Using Load cell.

- In the introduction of proposed system and the proposed system is advantageous than the existing system by considering all the problems present in the current ration Monitoring system
- The various reviews of the literatures related with the concern topic.
- The system implementation and describe various hardware required for the System implementation.
- There is an introduction of software's required for the system implementation.
- The flow of work of proposed system is described with the help of flowchart and algorithm.

III. FLOW ALGORITHM



IV. CONCLUSION

This proposed project can provide a safe, secure and efficient way of public distribution system. By using this technique ration shops solves the problem of too much manual process in Public Distribution System (PDS). This proposed project definitely paves way for a corruption reduced India in the future. This new technology gives solution and this work will make a great change in Public

distribution system and provides benefit to the government about current stock information and reduce the manpower.

V. REFERENCES

- [1] Vikram Singh et.al. "Smart Ration Card", Volume 4, No 4, April 2013 Journal of Global Research in Computer Science.
- [2] Dhanashree et.al. "Web-Enabled Ration Distribution & Corruption Controlling System" Vol.2, Issue 8, Feb 2013, International Journal of Engg. & Innovative Technology.
- [3] Mohan et.al. "Automation of Ration Shop Using PLC" Vol. 3, Issue 5, Sept-Oct 2013, International Journal of Modern Engg. Research.
- [4] A..N Madhur et.al. "Automation in Rationing System" Vol.1. Issue 4, July 2013, International Journal of Innovative Research in Electrical, Electronics Engg.
- [5] Kashinath Wakade et.al. "Smart Ration Distribution & Controlling" Vol. 5, Issue 4, April 2015, International Journal of Scientific & Research Publications.
- [6] K. Bala Karthik,"Closed-based ration card system using RFID and GSM technology," vol.2, issue 4, Apr 2013.
- [7] A. N. Madur, sham Nayse, "automation in rationing system using arm 7," international journal of Innovative research in electrical, electronics, instrumentation and control engineering ,vol.1, issue 4, Jul 2013.
- [8] Rajesh C. Pingle and P. B. Borole,"Automatic rationing for public distribution system (PDS) using RFID and GSM module to prevent irregularities", HCTL open international journal of technology Innovations and research, VOL 2,pp.102-111,mar 2013.
- [9] S. Valarmathy, R. Ramani, "automatic ration material Distributions based on GSM and RFID technology," International journal of intelligent systems and Applications, VOL 5,pp.47-54, Oct 2013.
- [10] S. Sukhumar, K. Gopinathan, S. Kalpanadevi, P. Naveenkumar, N. Suthanthira Vanitha, "automatic Rationing system using embedded system technology", international journal of innovative Research in electrical, electronics, instrumentation and control engineering vol. 1, issue 8, november2013 published in.
- [11] Mahammad Shafi, K. Munidhana Lakshmi, "e-ration Shop : an automation tool for fair price shop under the public distribution system in the state of Andhra Pradesh", international journal of computer applications (0975 – 8887)
- [12] Dhanoj mohan, Rathikarani, Opukumar,"Automation in ration shop using plc," international journal of modern engineering research, vol.3,issue 5,sep-oct 2013, pp 2291-2977,issn:2249-6645.
- [13] Neha Pardeshi, Trupti Desale, Prajakta Bhagwat, Ruchaliahire, "web-enabled ration distribution and controlling" ISSN: 2277- 9477, march 2012.

[14] Rajnish Mahajan, "bar-coded ration card and public distribution system," 13th July 2012.

[15]Ministry of consumer affairs, food and public distribution department of food and public distribution, annual plan 2011- 12.