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**BONAFIDE CERTIFICATE**

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**ABSTRACT**

Ration Automation System is used to reduce the burden of manual work which is carried out during the functioning and operation of Fair Price Shop (FPS).From the time these Fair Price shops were brought into implementation and till now the functioning and operation are done manually, so there are lot of drawbacks which comes into the picture some of these include long queues of people waiting, manual billing etc. This is something that is time consuming so a good solution to this would be to automate this system.

The features of this system includes the replacement of conventional Ration card by a Smart card which uses a RFID tag for authentication of valid card holders, System which reduces the man work needed to weigh and provide subsidies to the customers. As soon as the stocks arrive to the Fair Price Shops the details of the items are updated to the family head of the card holders, this reduces the burden of people enquiring about the items from Ration shops.

The purchase details of subsidies for each month can be viewed by the customers for reference with the help of an SMS. If the user is a valid user, the next process takes place and the input can be given in the interface. As soon as the input is given, the products are obtained from the automated ration shop and an SMS is sent to the valid customer holder regarding the purchases made by him/her.

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**LIST OF ABBREVIATION**

|  |  |  |
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| **S NO.** | **ABBREVIATION** | **DEFINITION** |
| 1 | PDS | Pubic Distribution Service |
| 2 | SCU | Signal Control Unit |
| 3 | DTE | Data Terminal Equipment |
| 4 | DCE | Data Circuit Equipment |
| 5 | EIA | Electronic Industries Alliance |
| 6 | WORA | Write Once Run Anywhere |
| 7 | UID | Unique Identification |
| 8 | RFID | Radio Frequency Identification |
| 9 | PIC | Program Interrupt Controller |
| 10 | PLC | Programmable Logic Control |
| 11 | SMS | Short Message Service |
| 12 | GSM | Global System for Mobile Communication |
| 13 | IDE | Integrated Development Environment |
| 14 | JVM | Java Virtual Machine |
| 15 | AC | Alternating Current |
| 16 | DC | Direct Current |
| 17 | LCD | Liquid Crystal Display |