

AgroBid

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Abstract— farmers have been facing issues while selling their food crops in market due to intermediate persons, who actually got profit by setting low price while buying from farmers and later sell the same at higher price to the customers. Through e-application is developed for farmers to set their own price to their products and allows buyers for e-auction. Farmers can set the initial bid amount based on quality, life time and current market price of the products before going for e-auction. The buyers can find nearest sellers through GPS navigation system. Choices locked once validity of bidding over and corresponding buyer, seller get notified through SMS. The interface also act as Decision Support System (DSS) for farmers to post their queries for getting advice's from agriculture specialists.

I. INTRODUCTION

The farmers who grow crops according to the season and fertility of the soil, after growing the crops they accumulate the crops, further process and pack them and contact the wholesale vendors regarding the availability of stock. The wholesale vendor first asks the price to the farmer who tells the price at which he/she can trade at. The wholesale vendor aiming for his own profits negotiates with the farmer regarding the price the poor framers sacrificing their profits generally accept the price quoted by the wholesale vendor. So, he/she sell their stock at low prices due to some unfavourable conditions such as financial problems, unavailability of wholesale vendors or market etc.

Some farmers who live very near to the cities bring their stock directly to the wholesale markets and sell their stock to the retailers and end customers. But for the farmers who live in the remote areas, it is not possible for them to come to the cities do frequently and sell their stock directly in their quoted price. Hence, they have no other option but to contact the wholesale vendor for selling their products in the market.

It is indeed a very long process to grow crop since there are various other conditions such as weather issues, soil infertility, seed defects etc. They expect to get some profits for many such issues they face.

The wholesale vendor after buying the stock from the farmers in their quoted price, they sell it to the retailer vendors and customers as well. The retailer vendors then sell it to the end consumer. The price changes stage to stage depending upon the negation done either earning profits or saving money.

The sellers negotiate for profit quoting high but on the other hand the buyers want to purchase the stock at feasible and low rates availing maximum stock at minimum amount.

Hence, from the growth of stock till it is sold to the end customers is a long process.

II. LITERATURE REVIEW

A. Farmers

The agricultural researches system in India includes some 27,500 scientists and more than 100000 supporting staff actively engaged in agricultural research which makes it the largest in the world.

B. Stock Market

Index futures were introduced as the first exchange traded equity derivative product in the Indian markets. In a span of a year and a half after that index options, stock options and lastly stock futures were introduced.

C. Auction

Online auction has become prominent solution to the expectations of online buyers since it excludes the need of physical presence of bidder at the auction place and the product can be obtained at the affordable price.

D. Commodity Market

Trading in the commodity market requires a sound working knowledge of the transactions and the trader should make an informed decision while trading. It is always better to enlist the services of a brokerage firm whilst dealing in commodities

III. METHODOLOGY

The system will first take the information of the stock and will display accordingly in the website. It will consist of market selling information such as price of the stock, place

of the farm from where the stock has been grown, the difference between price quoted by the farmer and our price.

The range of stock trading would range to 100-200 kms within city limits of Pune. Supplier would get 6-8% commission as salary from the net profit. Farmer's profit from difference of cost from existing system and our system.

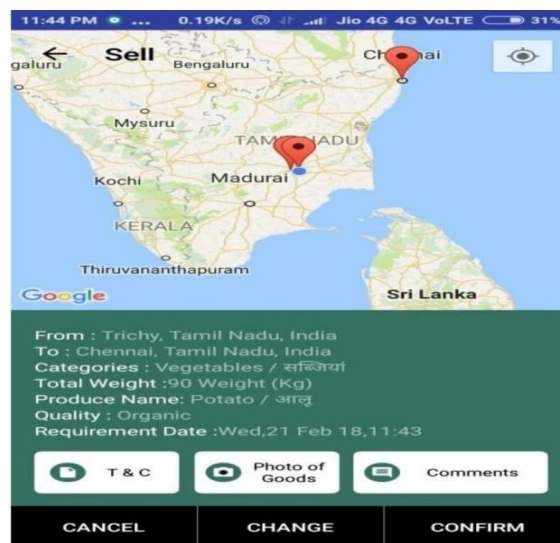
Buying Inventory from the farmers and testing them in lab..After testing, quality approval, and giving the base price, the price would be displayed on the screen. Customers place order on non-negotiable price and the main method for stock market starts. The leftover 30% stock would be sent for action. This 30% stock would be deliberately reserved for the last auction so farmers could also get profit on the highest price of the stock sold at last so they can make maximum profit

IV. RESULT AND DISCUSSION

To sell: After choosing option „sell“ from drop-down, a prompt (FIG-1) open by asking seller to enter source (place where user have vegetables) and destination (place where user want to sell) details. After entering the source and destination a path with red color will show on the map to show the distance between them. In below seller need to select the organic or hybrid type and in the next drop-down will show vegetables/rice/wheat. Based on seller option it will ask for weight of the products in kg's/ ton's /bag's correspondingly. Then in the down it will show a transported vehicle with list of vegetables.

To Buy: If any buyer wants to buy or to participate in bidding in first time then he need to enter the basic Details in the prompt (Fig-3) contains delivery destination (used to calculate transportation cost while bidding), preferred market (if he want to buy from a particular location), the products are categorized as vegetables or rice or wheat..etc. He needs to enter item that he wants to buy or bid by specifying quantity in kg's/ton's/bag's in the next fields, SMS will be sent to buyers during bid or if any product is confirmed those details sent to the mobile no he specified in "mno-field" before submitting form

V. SIMULATION RESULTS



VI. CONCLUSION AND FUTURE WORK

Through e-application farmers and end-users both can be benefited by absence of middle man. It further helps to take decisions effectively by querying the problems to experts. By adding online advance payment can increase the transparent of e-auction. The grade allocation to the quality of the products in online can be useful to classify the products with more accuracy.

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