



Research Article

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Constraints Perceived by Farmers in the Use of E-Choupal



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Abstract

Exchanging of information is critical for different type of stakeholders in agriculture value chain in order to reduce the asymmetries in information and communication as well as to reduce the malicious circle of poverty. In this context, e-Choupal is seen as one of the most important means of achieving such a major transformation. But in other hand there are some constraints in using e-Choupal, so in order to ascertain perceived constraints by the farmers in use of e-Choupal, the study was undertaken in Gonda district of Uttar Pradesh. A sample of total 120 farmers who are the users of e-Choupal was selected through simple random sampling method. The collected data were analysed through Garret ranking method.

Major constraints perceived by the farmers were, lack of awareness about services of e-Choupal with Garrett's Mean Score (GMS) 52.98; accessibility of e-Choupal is not easy (44.73GMS) to information not provided in local language (24.88GMS) were the major constraints. So the study suggests that there is a need to ensure that the problems of the farmers are being met in solving the problem, in order to enable the farming community derive maximum benefits on better access to information services through the use of e-Choupal for different purpose of agriculture and other rural developmental activities.

Keywords: E-Choupal; Constraints; Farmers; Garret ranking technique

Introduction

The desire to promote better information access to improve the socio-economic condition of the farmers has always been the top priority of extension professional and rural advisory service providers [1]. According to FAO [2], exchanging information is critical for different type of stakeholders in agriculture value chain in order to reduce the asymmetries in information and communication as well as to reduce the malicious circle of poverty. Parameswaranaik et al. [3] reported that for every technology there will be some constraints in using by farmers. Yet despite economically vital role, Indian agriculture has until recently been regulated in an archaic fashion that limits its productivity.

Non optimal farming practices and capricious weather pattern left post-independence India with an underperforming agricultural sector, acute food shortages, and dependence on food imports. To tackle these challenges of Indian agriculture, ITC (Indian Tobacco Company) conceived e-Choupal that

places computers with internet access in rural farming villages. E-Choupal is internet kiosk, village gathering place and e-Commerce hub all rolled into one. E-Choupal also established a low- cost fulfillment system focused on the needs of rural India, which helps in mitigating rural isolation, create more transparency for farmers, and improve their productivity and income. E-Choupal aims to provide rural people ready access to specific real time information and customized knowledge in their native language. The E-choupal is run by an operator called the "Sanchalak" who himself is a farmer [4]. Thus, the present research was designed to study the constraints of farmers in usage of E-Choupal, the specific objective "To ascertain the perceived constraints of farmers in usage of E-Choupal services in Gonad district of Uttar Pradesh".

Methodology

The statistical population of the present research study includes farmers who are the users of E-Choupal and involved

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in the agricultural activities. Total, 120 farmers were selected randomly from four selected villages of Gonda district districts of Uttar Pradesh. The problems which farmers could face during usage of E-Choupal were listed following extensive review of literature. The list of statements was translated into local language and the farmers were asked to identify major constraints faced by them in decreasing order of significance. The data were collected through personal interview with the help of pre-tested structured interview schedule. The interview schedule containing a list of constraints and the farmers were asked to rank each factor based on the severity of the factor.

All the listed constraints were ranked by the farmers, and after that method of combining of incomplete order of merit ranking as advocated by Garrett [5] was followed accordingly. The collected data was tabulated and analysed statistically by using Garrett's ranking technique. The obtained values were transformed into scores by using the Garrett's ranking formula as follows;

Percent position =
$$\frac{100(R_{ij} - 0.5)}{N_t}$$

Where.

 R_{ii} = Rank given by i^{th} factor and j^{th} individual

N₁ = Number of factor ranked by jth individual

The percent position was calculated for the ranks as well as their corresponding Garrett's table value. The current work has seven constraints and respondents asked to rank each constraint according to severity of constraints faced by them. Collected data was arranged in factor (constraints) and rank wise, later Garrett's value was multiplied with Garrett's table value. Total score was calculated by multiplying the Garrett's value with the rank assigned by the respondents. Further, Garrett's score was calculated by dividing the total score by the number of respondent sand rank was assigned according to Garrett's score.

Results and Discussion

Table1: Constraints perceived by respondents in usage of e-Choupal (n=120).

Sl. No	Constraints	Total Score	Garret Score	Ranks
1	Lack of awareness among the society	6358	52.98	I
2	Accessibility is not easy	5367	44.73	II
3	Power fluctuations	4895	40.79	III
4	Cost involved in getting service	4627	38.56	IV
5	Poor Network Connectivity	3686	30.72	V
6	Lack of organized information	3456	28.8	VI
7	Information not provided in local language	2986	24.88	VII

The results revealed from (Table 1), that lack of awareness about the services of E-Choupal among the farmers was the major constraint that prevented the farmers from using its services. The Garret Mean Score for this statement is 52.98 and ranks first among all constraints and this might be due to lack of mass media exposure. The second most important constraint was accessibility of e-Choupal is not easy and with Garrett's scores 44.73, it may be attributed to the reasons like lack of transportation facility in the study area. And power fluctuation was listed as the third most severe constraint by the farmers when they visit e-Choupal, even power backup supply system did not work due to shortage of power for several hours so this another major constraints perceived by the respondents with Garrett's score 40.79.

Findings of the study supported by Senthilkumar & Chander [6] revealed that among the constraints perceived by dairy farmers in accessing Village Information Centre, general problem like power failure, connectivity problem, inadequacy of computer etc. was considered as foremost constraints. Sarvanan [7] & Olaniyi [8] also reported that infrastructural inadequacy, including power supply, telecom connectivity and inaccessibility in rural areas are the major constraint in utilizing ICT tools.

Another important economic constraint 'Cost involved in getting service' was ranked fourth with a GMS of 38.56. It might be due to the people perception that the cost of using e-Choupal was high. It was comparable with the findings of Singh et al. [9] who revealed that high cost for service provided was second most important constraint.

Findings of the study are in conformity with Ogbonna & Agwu [10] who revealed that major constraints in utilization of ICT by rural farmers are due to low income earning capacity. 'Poor Network Connectivity' was considered as fifth important constraint as perceived by farmers with Garrett's score 30.72. The findings of the study are comparable with Singh et al. [9] and Syiem & Saravanan [1] who reported that poor connectivity of network is one problem faced by the farmers in using mobile phones. Another constraints 'lack of organized and updated information was ranked sixth with Garrett's score 28.80 Information not provided in local language was ranked seventh with Garrett's score 24.88. Findings of the study are in line with Saravanan [7] who reported that availability of relevant and localized content in an appropriate language are common challenges faced by farmers in accessing information through ICTs [11,12].

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Conclusion

From the above study, it can be concluded that farmers faced some constraints in usages of E-Choupal. Realization of full potential of E-Choupal is constrained by inadequacy in different areas like Lack of awareness about various services of E-Choupal among the farming community; Accessibility is not easy, Power fluctuation, Economic constraint, Poor Network Connectivity. In spite of these few constraints e-Choupal showed promising and better option for the dissemination of information among farmers in different states [13]. There is a need to ensure that the problems of the farmers are being met in solving the problem in order to enable the farming community derive maximum benefits on better access to information services through the use of E-Choupal for different purpose of agriculture and other developmental activities. Further attempt should be made to create awareness among farming community about various services offered by e-Choupal.

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