

Original Research Article

<https://doi.org/10.20546/ijcmas.2019.812.001>

Training Needs Assessment of Tribal Backyard Poultry Farmers in Kandhamal District of Odisha, India

Vikas Kumar Khuntia*, Pitambar Swain, Kumari Shweta and Bhabesh Chandra Das

Department of Veterinary & Animal Husbandry Extension, College of Veterinary Science & Animal Husbandry, OUAT, Bhubaneswar-751003, Odisha, India

*Corresponding author

ABSTRACT

Keywords

Training need assessment, Backyard poultry farming, Tribal farmer

Article Info

Accepted:
04 November 2019
Available Online:
10 December 2019

Rearing of backyard poultry has been an age old practice of tribal community. But the traditional method of rearing poultry is not remunerative enough to maintain their livelihood. In order to enhance the income from backyard poultry farming, appropriate intervention through training is needed and for that the areas of training need are required to be assessed critically. Keeping in view the above facts, present study was carried out to know the training needs areas of tribal respondents in Kandhamal district of Odisha. A total of 60 respondents were interviewed from 6 villages for data collection. It was observed that training need on feeding management in poultry was ranked I followed by breeding management, disease management, care and management of birds, marketing and record keeping, shed management, and government schemes in poultry as II, III, IV, V, VI and VII, respectively. Under these categories, training to make balanced ration, knowledge about mating with superior breeds, vaccination to prevent disease, care and management of chicks, selling and purchasing of poultry birds and its importance, parameters for construction of poultry shed, and knowledge about loan and subsidies were prioritized by the majority of tribal farmers (93.3%, 85%, 71.6%, 87%, 85%, 72% and 95%, respectively).

Introduction

Animal husbandry is one of the most important components of agriculture for sustainable livelihood of rural people. Under this sector backyard poultry is an important component which has huge potential to emerge as a very good source of

supplementary income and employment for the rural people especially the tribal farmers who cannot afford to maintain large animals like cow or a buffalo. In spite of having potential of good economic returns from backyard poultry birds tribal farmers do not earn good income from such activities. So, the rearing of backyard poultry birds for

livelihood security of tribal farmers needs to be improved substantially to increase productivity and profitability. Keeping in view the importance of training, it is proposed to take up the training needs assessment (TNA) of tribal farmers in backyard poultry rearing practices.

“Training Needs Assessment” (TNA) is the method of determining training need and identifying what training is required to fill the knowledge gap. Similar study by Singh *et al.*, (2013) found that majority of the farmers desired training by on site demonstration method (74.5%), 15.5 per cent by using exposure visits, 5.5 per cent by lecture with field trip, and 4.5 per cent by group discussions. In backyard poultry rearing the training needs assessment can be done in areas such as care and management, feeding, breeding, housing, disease management, marketing and awareness about government scheme, so that the present existing situation can be known well and accordingly training needs could be identified in concerned areas that will ensure to address actual training needs of the tribal farmers and will help in doubling the tribal farmers’ income.

Materials and Methods

The present study was undertaken in Kandhamal district of Odisha which is predominantly inhabited by tribal population, from this district two block and from each block three villages and from each village ten beneficiaries on the basis of their experience in backyard poultry rearing practices (minimum of two years) and number of backyard poultry being kept (at least five) by them were selected as respondents for study. Thus a total of 60 respondents were interviewed for data collection. The data collected were tabulated and statistically analysed with the help of frequency, percentage, scoring and ranking.

Results and Discussion

Overall training needs on different training areas

For any training to be a successful one, it is necessary that the training covers the farmers’ need areas. Therefore, an attempt was made to know the overall training needs on different training areas and is presented in the Table 1.

The above table reveals that training need of respondents on feeding management in poultry was ranked I followed by breeding management, disease management, care and management of birds, marketing and record keeping, housing management and knowledge about government schemes in poultry ranked II, III, IV, V, VI and VII, respectively. Similar study by Pratap *et al.*, (2015) revealed that poultry farmers had differential training needs in poultry farming. So, training programmes may be designed separately for each category of poultry farmers to make them competent in poultry farming.

Ranking of training needs in different areas in poultry rearing practices

Under different broad categories of training needs areas, detailed analysis was done to know the priority of the areas in which respondents need training. The findings of the study are presented in the Table 2.

Training needs areas on care and management of poultry

Table 2 reveals that the training need in the area of care and management of chicks ranked I followed by care and management of breeding hen ranked II and careful steps to be taken in different season ranked III. The reason of giving top priority on care and management of chicks might be inadequate knowledge and skill for advance system of

management of chicks by the respondents. Similarly, the respondents are in need of training of care and management of breeding hen in order to enhance the egg production level and reduce the mortality of chicks. Moreover, the respondents opined to undergo training on, careful steps to be taken in different season which might be due to huge mortality of birds because of seasonal variations.

Training needs areas on feeding management of poultry

It is revealed from the above table that respondents gave top priority and ranked I to undergo training on preparation of balanced ration followed by ranked II to feeding of chicks and ranked III to care about feeding of poultry birds, respectively. The reason being respondents did not have appropriate knowledge on preparation of balanced ration for which feeding of locally available poultry feed reduce the growth rate of the birds and lowers the egg production leading to loss. Similar findings were reported by Sahu and Singh (2014) who stated that under feeding practices, source of vitamin, protein, minerals and carbohydrates in feed were considered as

most important training needs areas. Similarly, the respondents were in need of training on feeding of chicks and also feeding of adult poultry birds to increase the production and productivity of the birds.

Training needs areas on breeding management of poultry

The table 2 reveals that respondents ranked I to undergo training on knowledge about superior breeds of poultry followed by ranked II to training area on increasing egg production and ranked III to maintenance of breeding ratio and flock size. Basing on the result it is observed that respondents were interested to undergo training on the knowledge about superior breed for mating because they were interested for better production and productivity of backyard poultry within stipulated period. Further, they were also interested to undergo training on the improved practice for more egg production and maintenance of breeding ratio and flock size. The reason being the respondents might have realized improved managerial practices as one of the important factors for better production and growth rate.

Table.1 Overall training needs on different training areas in poultry

Sl.No.	Training areas	Mean score	Rank
1.	Feeding Management in poultry	2.416	I
2.	Breeding Management in poultry	2.354	II
3.	Disease Management in poultry	2.341	III
4.	Care and Management in poultry	2.337	IV
5.	Marketing and Record keeping in poultry	2.327	V
6.	Shed Management in poultry	2.306	VI
7.	Government schemes in poultry	2.202	VII

Table.2 Ranking of training needs in different areas in poultry rearing practices

Sl. No.	Training need areas	MOST IMP.		IMP.		NOT IMP.		Total score	Mean score	Rank
		<i>f</i>	%	<i>F</i>	%	<i>f</i>	%			
A	Training needs areas on Care and Management of poultry									
1.	Care and management of chicks	52	87.00	5	8.00	3	5.00	169	2.816	I
2.	Care and management of breeding hens	47	78.00	10	17.00	3	5.00	164	2.733	II
3.	Care of backyard poultry birds in different season	43	72.00	11	18.00	6	10.00	157	2.616	III
B	Training needs areas on Feeding management of poultry									
1.	Training to make balanced ration	56	93.30	3	5.00	1	1.60	175	2.916	I
2.	Feeding of chicks	55	91.60	4	6.60	1	1.60	174	2.900	II
3.	Feeding of adult poultry birds	51	85.00	8	13.30	1	1.60	170	2.833	III
C	Training needs areas on Breeding management of poultry									
1.	Knowledge about superior breed for mating	51	85.00	5	8.00	4	7.00	167	2.783	I
2.	Improved practice for more egg production in backyard poultry	43	72.00	17	28.00	0	0.0	163	2.716	II
6.	Breeding ratio and flock size	42	70.00	14	23.00	4	7.00	158	2.633	III
D	Training needs areas on Shed management of poultry									
1.	Parameters for construction of poultry shed	43	72.00	15	25.00	2	3.00	161	2.683	I
2.	Floor types and management	42	70.00	7	11.60	11	18.30	151	2.516	II
3.	Finding right location for poultry shed	35	58.30	17	28.30	8	13.40	147	2.450	III
E	Training needs areas on Disease management of poultry									
1.	Vaccination for prevention of diseases	43	71.60	16	26.60	1	1.60	162	2.700	I
2.	Information about first aid treatment	31	52.00	23	38.00	6	10.00	145	2.416	II
3.	Preventive measures to be taken against various disease	25	42.00	33	55.00	2	3.00	143	2.383	III
F	Training needs areas on Marketing and Record keeping of poultry									
1.	Selling and purchasing of backyard poultry birds	51	85.00	7	12.00	2	3.00	169	2.816	I

2.	Information about Marketing channels	42	70.00	17	28.40	1	1.60	161	2.683	II
3.	Knowledge about retailer, whole seller and purchaser	42	70.00	14	23.00	4	7.00	158	2.633	III
G	Training needs areas on Government schemes of poultry									
1.	Knowledge about loan and subsidies	57	95.00	3	5.00	0	0.0	177	2.950	I
2.	Information about state government schemes	56	93.40	3	5.00	1	1.60	175	2.916	II
3.	Information about various NABARD schemes	39	65.00	18	30.00	3	5.00	156	2.600	III

Training needs areas on shed management of poultry

The result from the Table 2 reveals that respondents ranked I to undergo training on the subject parameters for construction of poultry shed followed by ranked II to different floor types and management and ranked III to finding right location for poultry. The reason of giving top priorities to this area might be that the respondents were facing problems in constructing the poultry shed for accommodating birds of different flock size.

Training needs areas on disease management of poultry

As evident from the result that respondents ranked I to the subject vaccination for prevention of diseases to undergo training followed by ranked II to information about first aid treatment and ranked III to preventive measures to be taken against various diseases.

In similar study conducted by Amudha and Veerabhadraiah (2000) observed that that a majority of poultry farm women needed training in areas like vaccination, medication, deworming, debeaking and identification of poultry diseases. The reason might be farmers were in need of knowledge of prevention of diseases through different approaches.

Training needs areas on marketing and record keeping of poultry

As evident from the result in Table 2 that respondents ranked I to the selling and purchasing of poultry birds and its importance to undergo training followed by ranked II to information about marketing and ranked III to knowledge about retailer, whole seller and purchaser to undergo training, respectively. This shows that marketing of backyard poultry was a pertinent problem among the tribal that they want to solve it through training.

Training needs areas on government schemes of poultry

The result from the Table 2 reveals that respondents ranked I to the subject knowledge about loan and subsidies as training area to undergo training followed by ranked II to information about state government schemes and ranked III to information about various NABARD schemes.

The reason may be respondents were unable to invest minimum amount to support small scale backyard poultry farm for which they were interested to gain knowledge on loan sanctioning process and subsidies. The respondents were also interested to undergo training on different state government program operating in the area, in order to

harness benefits from this programmes. Based on priority training areas as indicated by the respondents in this study, there can be a systematic and strategic training intervention in the respective area planned by the government or voluntary organization among the backyard poultry tribal farmers for not only enhancing their income but also for overall socio-economic and socio-cultural development of the communities.

References

Amudha, S., and Veerabhadraiah, V. 2000. Perceived training needs and problems of farm women in poultry farming, Current Research-University of Agricultural Sciences Bangalore, 29(5/6): 88-89.

Pratap, J., Sagar, M.P., Chander, M., Tripathi, H., Kumar, S. and Verma, M.R. 2015. Assessment of training needs of broiler poultry farmers in Barabanki District of Uttar Pradesh, *Indian Journal of Poultry Science*, 50(2): 208-212.

Sahu, R. P. and Singh, N. K. 2014. Training needs of poultry farmers in hilly areas, *Indian Journal of Extension Education*, 50(3): 62-64

Singh, B., Rai, R.B., Dhama, K., Ali, H., Damodaran, T., Chakraborty, S. and Singh, A.K. 2013. Training need areas of poultry farmers and their preference regarding methods, venue, time and period of training, *International Journal of Current Research*, 5: 2279-2282.

How to cite this article:

Vikas Kumar Khuntia, Pitambar Swain, Kumari Shweta and Bhabesh Chandra Das. 2019. Training Needs Assessment of Tribal Backyard Poultry Farmers in Kandhamal District of Odisha, India. *Int.J.Curr.Microbiol.App.Sci*. 8(12): 1-6.
doi: <https://doi.org/10.20546/ijcmas.2019.812.001>