**COMPARATIVE SOCIOECONOMIC ANALYSIS OF BROILER AND SONALI CHICKEN PRODUCTION SYSTEM AT SOME SELECTED AREAS IN NARSINGDI DISTRICT**

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**Roll No: 0120/04**

**Reg. No: 826**

**Session: 2020-2021**

**A thesis submitted in the partial fulfillment of the requirement for the degree of Master of Sciences in Agricultural Economics.**

**Department of Agricultural Economics and Social Sciences**

**Faculty of Veterinary Medicine**

**Chattogram Veterinary and Animal Sciences University**

**Khulshi, Chattogram, Bangladesh**

**January 2023**

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**January 2023**

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Professor

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***Dedication***

**I dedicate this small piece of work to**

**My beloved mother who always valued education**

**above everything else.**

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**The Author**

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**LISTS OF ABBREVIATION**

|  |  |  |
| --- | --- | --- |
| BCRDV | : | Baby Chicks Ranikhet Disease Virus |
| BCR | : | Benefit cost Ratio |
| BPFE | : | Broiler Performance Farm efficiency |
| BRAC | : | Bangladesh Rural Advancement committee |
| CRD | : | Chronic Respiratory Disease |
| CVASU | : | Chattogram Veterinary and Animal Sciences University |
| DOC | : | Day Old Chicks |
| DLS | : | Department of livestock Services |
| FCR | : | Feed Conversion Ratio |
| FEI | : | Farm Economy Index |
| GC | : | Gross Cost |
| GDP | : | Gross Domestic Product |
| GR | : | Gross Return |
| IBD | : | Infectious Bursal Disease |
| MS | : | Master of Science |
| ND | : | New castle Disease |
| NGO | : | Non-Government Organization |
| NP | : | Net Profit |
| PEF | : | Performance Efficiency Factor |
| RIR | : | Rhode Island Red |
| SLDP | : | Small Holder Livestock Development Project |
| SIGG | : | Second income Goal group |
| SPFE | : | Sonali Performance Farm Efficiency |
| TVC | : | Total Variable Cost |
| TFC | : | Total Fixed Cost |
| TC | : | Total Cost |

**ABSTRACT**

The study was undertaken to find out the socioeconomic status of Broiler and Sonali Chicken farm owners and their relative profitability. To conduct the study four Upazila Belabo, Raipura, Monohordi and Shibpur were selected as study areas under Narsingdi District. In total 40 commercial poultry farms were selected where 20 farms were Broiler, and 20 Farms were Sonali Chicken. From each Upazila each type of 5 farms were selected for in-depth study and collected necessary data from the farm owners from January to June 2022 through a pretested questionnaire directly by the researcher himself. The social characteristics of both types of poultry farmers have a lot of similarities and farmers reported Sonali chicken rearing is easier than that of broiler farming as farming risks and market price comparatively better than broiler with low cost of rearing. The study also revealed that, the Feed Conversion Ratio (FCR) for Broiler was found highest 1.45 in Farm-4 whereas the lowest 1.88 FCR was found in Farm 13 and in case of sonali chicken it was found the highest 2.27 in Farm-11 whereas the lowest 3.0 FCR was found in the Farms 2, 4 and 7. The accounted average FCR was found 1.69 for broiler and 2.1 for sonali chicken. An estimated average live weight per bird was found 1.99 kg in broiler and in sonali it stood at 0.83 kg. The average mortality rate was found for broiler 1.7 percent, and it stood at 2.91 percent for Sonali chicken. Farm wise mortality rate was the highest 3.33 percent in farm-9 and the lowest 0.8 percent in farm-2 whereas the highest and the lowest mortality rate was found 3.5 percent in farms 10 &117 and lowest 2.1 in farm-9 for sonali chicken.

The accounted highest cost incurred was found Tk.255.21 in farm-5 and the incurred per bird the lowest cost Tk. 177.21 in farm-16 for broiler and in case of sonali farming it stood as the highest. 175.45 in farm-15 and the lowest Tk. 164.55in farm-1. The accounted average cost per bird was found in Tk. 215.71 for broiler and Tk. 150.45 for sonali chicken. The average gross return and net return per bird in broiler and Sonali chicken were amounted in Tk.270.28 and Tk. 57.68 in broiler farming practices and Tk. 175.15 and Tk. 27.73 for sonali farming practices. The accounted Benefit Cost Ratio(BCR) was found 1.22 and 1.16, respectively for broiler and sonali chicken farming practices in a single which was indicated both type farming is a profitable farm business, but broiler gave comparatively higher return during a short period of time.

Finally, findings of the study, farmers always felt threatened to raise Broilers and Sonali owing to the different issues they were confronted with farming. Though the possibility of Broiler and Sonali farming were found to be high prospects as marketing be easy than other District, but Govt. support and facilities will be improved to make poultry farming as sustainable industry in Bangladesh. In conclusion, the research offered some valuable suggestions for potential solutions to solve the challenges is facing in Broiler and Sonali farming at Nasingdi District.

**Key words:** Broiler farming, Descriptive statistics, Farmer's Socioeconomic status, Sonali chicken Farming, Costs, Returns and BCR.