**TABLE OF CONTENTS**

LIST OF TABLES………………………………………………………………….iii

LIST OF FIGURES…………………………………………………………………iv

ABSTRACT………………………………………………………………………....v

CHAPTER I:

INTRODUCTION………………………………………………………….…….….1

CHAPTER II:

MATERIALS AND METHODS……………………………………………….…...4

2.1. Study area and duration……………………………………………….………..4

2.2. Study population ……………………………………………………….……….4

2.3. Questionnaire construction and data collection………………………………....4

2.4. Breeds of turkey…………………………………………………………….…...4

 2.4.1. Board breasted bronze……………………………………………………..5

 2.4.2. Board breasted white……………………………………………………....5

2.5. Management practices in turkey………………………………………………...5

2.5.1. Housing management…………………………………………………………5

 2.5.1.1. Incubation…………………………………………………………………..5

 a) National incubation with broody hen………………………………………..5

 b) Artificial incubation…………………………………………………………5

 2.5.1.2. Brooding……………………………………………………………………6

 2.5.1.3. Lighting schedule…………………………………………………………..6

 2.5.1.4. Temperature……………………………………………………….………..7

 2.5.1.5. Humidity…………………………………………………………….……...7

 2.5.1.6. Housing system………………………………………………………….…8

 A) Intensive system……………………………………………………………8

 B) Free range………………………………………………………………..…..8

 2.5.1.7. Space requirement…………………………………………………….….….9

 a) Floor space……………………………………………………………..……..9

 b) feeder space………………………………………………………….…….….9

 c) Waterer space…………………………………………………………………9

2.5.2. Feeding management……………………………………………………..…...10

 2.5.2.1. Frequency of feeding………………………………………………….…....10

 2.5.2.2. Feeds offered………………………………………………………….….…10

 2.5.2.2.1. Ready made feeds……………………………………………………..….10

 2.5.2.2.2. Free range feeding……………………………………………………...…10

 2.5.2.3. Watering………………………………………………………………...…..11

2.5.3. Health management…………………………………………………...……….11

 2.5.3.1. Common diseases found on turkey…………………………….……...……11

2.5.4. Debeaking…………………………………………………………………..….11

2.5.5. Detoeing or toe clipping…………………..………………………………..…12

2.5.6. Biosecurity……………………………………………………..………………12

CHAPTER III

RESULTS AND DISCUSSION………………………………………………..…...13

3.1 Case study-1: patiya turkey farm……………………………………………...…21

3.2. Case study-2: jalalabad turkey farm……………………………………………..22

3.3 Case study-3: agrabad turkey farm………………………………………………23

CONCLUSION……………………………………………………………..……......24

REFERENCES……………………………………………………………………….25

APPENDIX…………………………………………………………………………..28

ACKNOWLEDGEMENTS…………………………………………………..……...33BIOGRAPHY…………………………………………………………………..……34

 **LIST OF TABLES**

Table 2.1: Temperature and relative humidity…………………………...…………5

Table 2.2: Lighting schedule……………………………………………………….6

Table 2.3:Temperature schedule……………………………………………………7

Table 2.4: Space requirement……………………………………………………….9

Table 2.5: Vaccination Schedule…………………………………….……………...11

Table 3.1: Information of the turkey farms……………………………………….13

Table 3.2: Cost of the farming…………………………………………………….14

Table3.3: Net return from the farm……………………………………………….15

Table 3.4: Comparison of feeding cost per 100 bird/month in three farms……...17

Table 3.5: Comparison of net profit/bird/month in three farms…………………18

 **LIST OF FIGURES**

Figure 3.1: Feeding management in patiya turkey farm………………………… 21

Figure 3.2: Birds are reared in litter system…………………………………….. 21

Figure 3.3: Kalmi leaf feeding as roughage………………………………………21

Figure 3.4: Housing system in jalalabad farm ……………………………………22

Figure 3.5:Group feeding…………………………………………………………..22

Figure 3.6: Pellet feeding…………………………………………………………..22

Figure 3.7: Free range rearing system …………………………………………….22

Figure 3.8:Turkey rearing along with other poultry species……………………...23

Figure 3.9: Inspection of the male bird……………………………………………23

Figure 3.10:Group feeding observed in agrabad farm…………………………….23

Figure 3.11: Layer feed from CP company………………………………………..23

**Abstract**

In comparison with the turkey rearing system in three different farms Patiya, Jalalabad and Agrabad in Chittagong district as a source of meeting the economic potential as well as meeting the needs of protein gap per capita with the number of turkey which were 170, 20 and 19. At the end of the study there were found some variation on the farm profitability among the three farms. The net profit of the farm peaked at patiya farm with the range of 9176-9883 taka per bird per year while the lowest profit attained at jalalabad farm with the range of 5220-7260 taka per bird per year among the three farms. Total cost per bird per day was ranged from 5-7 taka in Patiya , 5.5-6.5 taka in Jalalabad, and 5-6 taka in Agrabad farm. In conclusion, though it has not become developed throught the country due to its less popularity and marketing problems however turkey farming has been proving as a profitable business in our country.

***Key words:*** Turkey, Chittagong, Protein, Net profit, Patiya, Jalalabad, Agrabad.