ACKNOWLEDGEMENT

The author is ever grateful and indebted to the Almighty Allah without whose grace it would have never been possible to pursue this study in this field of science and to complete this production report writing for the Degree of Doctor Of Veterinary Medicine (DVM).

I would like to thanks my reverned and beloved teacher and supervisor Associate Professor DR.Omar Faruk Miazi, Head of Dept. of Genetics & Animal Breeding, Chittagong Veterinary and Animal Sciences University, Khulshi, Chittagong for his valuable advice, suggestions and kind co-operation during the study period.

I extend my deep sense of gratitude and thanks to Professor Dr.A.S. Mahfuzul Bari, VC of Chittagong Veterinary and Animal Sciences University.

I highly express my sincere gratitude and gratefulness to the Director of External affairs, Dr. Bibek Chandra Sutradhar , Associate professor, Department of Medicine and Surgery, Chittagong Veterinary and Animal Sciences University, for his constant inspiration, cordial co-operation, valuable suggestion for completion of the report work.

I would like to express my heart felt appreciation & thanks to DR. Md. Monjur Morshed, Curator, Chittagong Zoo & the zoo authority for their kind cooperation during the study period.

 The Author

ABSTRACT

The study was conducted on the basis of knowing about the Phenotypic Characters and Reproductive Parameters of barking deer under Feeding management at Chittagong Zoo. Data were collected for a period of 3 months from 04 deer from 1st September 2013 to 30th November 2013 on all age groups. The deers were kept within an open enclosure measured as 66.52sq.m with a fence of chain link mash, 3.6m in height. Available feeds supplied to deer were Gram, Rice bran, green gourd, pumpkin, Carrot and Amloki. The body coat color was reddish and “V” Shaped black colored forehead and black colored muzzle. The ear’s length of males & females were 3-4 and 3.5 inch. The length of foreleg for male and female were 20 and 19 inch and the length of hind leg for male and female were 22 and 21 inch. The length of antlers was 3 inch. Distance from ear to ear of male and female were 3.7 and 3.6inch. The average birth weight of males and females were ranging from 1-1.5 kg and 0.5-0.7 kg, males and females weaning weight were ranging from 10-12 kg and 08-10 kg respectively. Adult male’s and female’s weight were ranging from 25-30 kg and 20-25 kg. It was also observed that the weaning age, length of estrous cycle, age at first fawning and gestation length were ranging from 4-6 months; 12-20 days : 14-18 month and 6-­7 month respectively. From the study, it was also observed that the feeding of barking deer need to be updated according to their nutritional requirement following some standard and overall management needs to be improved as well.

Key words: Barking deer, Chittagong zoo, phenotypic characters, Reproductive parameters, Feeding management.