



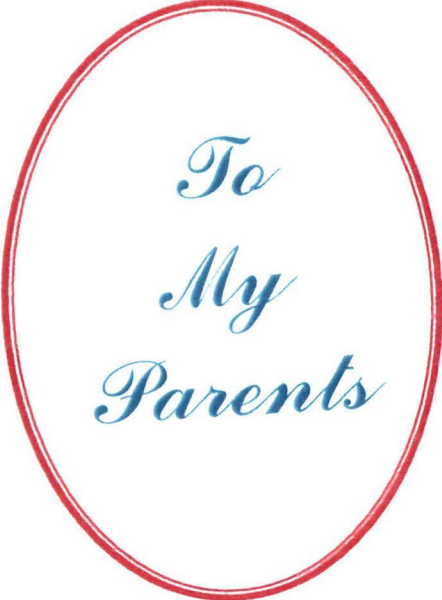
**Professor Bikas Chandra Pal, Retd.**  
M.Sc. (Cal), Sc.D. (Johns Hopkins, USA)  
Professor, Department of Zoology

## *Certificate*

I certify that Sri Ranendra Nath Seal has worked under my guidance in the Department of Zoology, University of North Bengal for his Ph.D. studies entitled, “**Ecologic and Socio-Economic studies on Santals, Mundas and Oraons in the Hili Block, Dakshin Dinajpur, West Bengal, India.**” I am forwarding his thesis for Ph.D. Degree (Science) of the University of North Bengal.

I recommend that he has fulfilled all the requirements according to the rules of the University of North Bengal regarding the works embodied in his thesis.

*Bikas Chandra Pal*  
**(Prof. Bikas Chandra Pal)**



*To  
My  
Parents*