Declaration

I hereby declare that this Ph.D. thesis entitled **"Chaplygin Gas Model as a Cosmological Model"** was carried out by me for the degree of Doctor of Philosophy in Mathematics under the guidance and supervision of **Dr. Kangujam Priyokumar Singh**, Department of Mathematical Sciences, Bodoland University Kokrajhar, India.

This thesis is a presentation of my original research work. Wherever contributions of others are involved, every effort is made to indicate this clearly, with due reference to the literature and acknowledgement. For the present thesis, which I am submitting to the University, no degree or diploma or distinction has been conferred on me before, either in this or in any other University.

Rajshekhar Roy Baruah

Research Scholar

Department of Mathematical Sciences

Bodoland University, Kokrajhar

Place: Kokrajhar