

CERTIFICATE

This is to certify that the thesis entitled "**Effect of Density Fluctuation Induced Phase Transitions on Baryon Number Distribution**" which is being submitted by **Biswanath Layek** in partial fulfillment of the degree of **Doctor of Philosophy in Science (Physics) of Utkal University, Bhubaneswar** is a record of his own research work carried out by him. He has carried out his investigations for the last five years on the subject matter of the thesis under my guidance at the **Institute of Physics, Bhubaneswar**. To the best of my knowledge, the matter embodied in the thesis has not been submitted for the award of any other degree by him or by anybody else.

Ajit Mohan Srivastava

Prof. Ajit M. Srivastava

Institute of Physics

Bhubaneswar

Orissa

INDIA