## **DEPARTMENT OF PHYSICS**

UNIVERSITY OF NORTH BENGAL

P.O. North Bengal University, Siliguri, Dist. Darjeeling, West Bengal, Pin - 734013, India

Website:www.nbu.ac.in



Phone: +91-(0) 353-2776338, Fax: +91-(0) 353-2699001

## **CERTIFICATE**

I certify that Mr. Sudipta Kumar Sarkar has prepared the thesis entitled "PHASE TRANSITION IN BINARY LIQUID CRYSTALLINE MIXTURES", for the award of Ph.D. degree of the University of North Bengal, under my guidance. He has carried out the work at the Department of Physics, University of North Bengal.

M. K. Des

(Dr. Malay Kumar Das)
Professor
Department of Physics
University of North Bengal
Raja Rammohunpur, Siliguri
Darjeeling – 734 013
West Bengal, India

DATE: 21.09,2017