

**DEPARTMENT OF PHYSICS**  
**UNIVERSITY OF NORTH BENGAL**  
P.O. NORTH BENGAL UNIVERSITY  
SILIGURI, DIST. DARJEELING (WB)  
PIN: 734 013 INDIA



Railway Station: New Jalpaiguri(NFR)  
Airport: Bagdogra  
Phone: +91 (0) 353 2699 107  
Fax: +91 (0) 353 2699 001

(TO WHOM IT MAY CONCERN)

This is to certify that the work reported in this thesis entitled "*Study of Physical Properties of Binary Mixtures of Liquid Crystals*" by Mr. Prithwi Dev Roy has been carried out by the candidate himself under our joint supervision and guidance. Mr. Dev Roy has fulfilled all the requirements for the submission of the thesis for Ph.D. degree of the University of North Bengal. Some part of the research work presented in this dissertation has been performed in collaboration with others. However, even in those works his contribution is very substantial. In character and disposition Mr. Dev Roy is fit to submit the thesis for the Ph. D. degree.

Date: 03.04.2006

M. K. Das

(Malay Kumar Das)

Reader

Department of Physics  
North Bengal University

Sukla Paul

(Sukla Paul)

Reader in Physics (retired)