

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: +91-353-2776338

Fax: +91-353-2699001

ENLIGHTENMENT TO PERFECTION

Ref. No.

Date

CERTIFICATE

I certify that Mr. Anish Chakraborty has prepared the thesis entitled “STUDY OF PHYSICAL PROPERTIES OF BENT-CORE MESOGENS HAVING NEMATIC AND SMECTIC PHASES”, for the award of Ph.D. degree of the University of North Bengal, under my guidance. Some parts of the research work presented in this thesis have been performed in collaboration with others. However, he has carried out major work at the Department of Physics, University of North Bengal and his contribution is very substantial.

M. K. Das

(Dr. Malay Kumar Das)

Professor,

Department of Physics,

University of North Bengal

Raja Rammohunpur, Siliguri

Darjeeling-734 013

West Bengal, India

DATE: 27.02.2017