

DEPARTMENT OF PHYSICS
UNIVERSITY OF NORTH BENGAL



Phone : Siliguri 20223, 20273 PABX Extn. 28

NORTH BENGAL UNIVERSITY
Dist. DARJEELING, WEST BENGAL.

INDIA PIN-734430

Ref. No. Phy/C-7/Cert-83

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(TO WHOM IT MAY CONCERN)

This is to certify that the work embodied in this thesis entitled "Studies on Liquid Crystals" by Sri Biswanath Jha has been carried out by the candidate himself under my direct supervision and guidance. Biswanath Jha has fulfilled all the conditions required for the Ph.D. degree examination of the University of North Bengal. Some part of the research work reported in this thesis is performed in collaboration with other research workers; however, in those cases the contribution of the candidate is, in fact, very substantial. In character and temperament he is suitable to submit the thesis.

(R. Paul)

Professor of Physics & Guide.