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(TO WHOM IT MAY CONCERN)

This is to certify that the work reported in this thesis entitled "Study of Physical Properties of some Liquid Crystals having Nematic and Smectic Phases" by Miss Banani Adhikari has been carried out by the candidate herself under my direct supervision and guidance. Miss Banani Adhikari 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 her contribution is very substantial. In character and disposition Miss Banani Adhikari is fit to submit the thesis for the Ph.D. degree.

Date: 30th Nov, 1995

(Ranjit Paul)

Professor of Physics and Supervisor.