



Ref. No. ....

Dated...12-12-.....1991

(TO WHOM IT MAY CONCERN)

This is to certify that the work reported in this thesis entitled "Studies of Liquid Crystals by Different Experimental Techniques", by Miss Sakuntala Gupta has been carried out by the candidate herself under my supervision and guidance. She has fulfilled all the conditions required for the Ph.D.degree examination of the University of North Bengal. Some part of the research work presented in this dissertation has been performed in collaboration with others. However, her contribution is very substantial. In character and disposition Miss Sakuntala Gupta is fit to submit the thesis for the Ph.D.degree of the University of North Bengal.

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