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This is to certify that the research work reported in this thesis entitled "Liquid Crystals: Structure - Properties Relationship" by Mr Sajal Kumar Giri has been carried out by the candidate himself under our joint supervision and guidance. He has fulfilled all the requirements for the submission of the thesis for PhD degree of the University of North Bengal. Some parts of the research work presented in this dissertation have been performed in collaboration with others. However, major work has been performed by him and his contribution is very substantial. In character and disposition Mr Sajal Kumar Giri is fit to submit the thesis for PhD degree.

Sukla Paul

(Sukla Paul)

Reader in Physics

Pradip Kumar Mandal

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Reader in Physics

"A matter that becomes clear ceases to concern us".

— Nietzsche