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This is to certify that the work reported in this thesis entitled "Determination of Order Parameters of Liquid Crystals From Birefringence, X-ray and Magnetic Anisotropy Studies" by Sri Mukul Kumar Mitra has been carried out by the candidate himself under my direct supervision and guidance. Sri Mukul Kumar Mitra has fulfilled all the requirements for the submission of the thesis for Ph.D degree of the University of North Bengal. Some parts of the research work reported in this thesis is performed in collaboration with other research workers, however, in those cases the contribution of Sri Mitra is, in fact, very substantial. In character and disposition Sri Mukul Kumar Mitra is suitable to submit the thesis for Ph.D degree.

(Ranjit Paul)
Professor of Physics & the Guide.