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CERTIFICATE

I certify that Mr. Sripada Haldar has prepared the thesis entitled "INVESTIGATION ON SOME ACHIRAL AND CHIRAL MESOGENIC SYSTEMS BY DIFFERENT EXPERIMENTAL TECHNIQUES" for the award of Ph.D. degree in Science (Physics) of the University of North Bengal, under my guidance. He has carried out the work at the Department of Physics, University of North Bengal.

A handwritten signature in blue ink, appearing to read 'Pradip Kr. Mandal'.

Prof. Pradip Kr. Mandal

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Date: 11/07/2013