
DECLARATION

I hereby declare that the research work embodied in this thesis has been carried out by me in the Department of Biotechnology, University of North Bengal, Darjeeling-734 013, West Bengal, India, under the supervision of Dr. Ranadhir Chakraborty, Department of Biotechnology, University of North Bengal, Darjeeling-734 013, West Bengal, India and Co-supervision of Dr. Ashis Kumar Nanda, Department of Chemistry, University of North Bengal, Darjeeling-734 013, West Bengal, India. I also affirm that this work is original and has not been submitted before in part or full for any degree/diploma or any other academic award to this or any other University or Institution.

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