

DECLARATION

I, hereby declare that the research work embodied in this thesis has been carried out by me in the Department of Chemistry & Chemical Technology, Vidyasagar University, Midnapore-721 102, West Bengal, India, under the supervision of Professor Syed Sirajul Islam, Department of Chemistry & Chemical Technology, Vidyasagar University, Midnapore-721 102, 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.

Date:

(Dilip Kumar Manna)

Department of Chemistry & Chemical Technology

Vidyasagar University-721 102

Midnapore, West Bengal, India.