DECLARATION BY THE CANDIDATE

I, "Ms. Surabhi Gupta" certify that the work embodied in this thesis is my own bonafide work and carried out by me under the supervision of "Dr. Jeyakumar Kandasamy" from "July 2014" to "June 2018" at the "Department of Chemistry," Indian Institute of Technology, Banaras Hindu University, Varanasi. The matter embodied in this thesis has not been submitted for the award of any other degree/diploma. I declare that I have faithfully acknowledged and given credits to the research workers wherever their works have been cited in my work in this thesis. I further declare that I have not willfully copied any other's work, paragraphs, text, data, results, etc., reported in journals, books, magazines, reports, dissertations, theses, etc., or available at websites and have not included them in this thesis and have not cited as my own work.

Date: Signature of the Student

Place: Varanasi (Ms. Surabhi Gupta)

CERTIFICATE BY THE SUPERVISOR(S)

It is certified that the above statement made by the student is correct to the best of my knowledge.

Supervisor Co-Supervisor

(Dr. Jeyakumar Kandasamy)(Prof. Vandana Srivastava)(Department of Chemistry)(Department of Chemistry)

Signature of the Head of Department/Coordinator of School(s)
"SEAL OF THE DEPARTMENT/SCHOOL."