DECLARATION BY THE CANDIDATE

I, "Vijay Kumar", certify that the work embodied in this thesis is my own bonafide work and

carried out by me under the supervision of "Prof. Syed Hadi Hasan" from "July 2013" to

"September 2017", at the "Department of Chemistry", Indian Institute of Technology (BHU),

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 wilfully 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:

Place: Varanasi

Vijay Kumar

CERTIFICATE BY THE SUPERVISOR

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

knowledge.

Prof. Syed Hadi Hasan
(Supervisor)
Department of Chemistry
Indian Institute of Technology
(Banaras Hindu University)

Varanasi- 221005

Prof. R. B. Rastogi
Head of Department
Department of Chemistry,
Indian Institute of Technology
(Banaras Hindu University),
Varanasi- 221005

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