

DECLARATION BY THE CANDIDATE

I, "*Sweta Mohan*", certify that the work embodied in this thesis is my own bona fide work and carried out by me under the supervision of "*Prof. Syed Hadi Hasan*" from "*September 2012*" to "*June 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 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:

Place: Varanasi

Sweta Mohan

CERTIFICATE BY THE SUPERVISOR

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

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