DECLARATION BY THE CANDIDATE

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

carried out by me under the supervision of "Prof. Mira Debnath (Das)" from "September

2012" to "May 2018", at the "School of Biochemical Engineering", 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

Mr. Ashish

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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