DECLARATION BY THE CANDIDATE

I, "Mansi Upadhyay", certify that the work embodied in this thesis is my own bonafide work

and carried out by me under the supervision of "Prof.Brahmeshwar Mishra" from "July

2014" to "January 2019", at the "Department of Pharmaceutical Engineering &

Technology", 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

Mansi Upadhyay

CERTIFICATE BY THE SUPERVISOR

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

knowledge.

Prof. Brahmeshwar Mishra (Supervisor)

Head of the Department