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It is further certified that the student has fulfilled all the requirements of Comprehensive Examination, Candidacy and SOTA for the award of Ph.D. Degree.

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(Dr Prasanta Kumar Nayak)

DECLARATION BY THE CANDIDATE

I, “Naveen Shivavedi”, certify that the work embodied in this Ph.D. thesis is my own bona fide work and carried out by me under the supervision of “Dr Prasanta Kumar Nayak” from “October, 2016” to “April, 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 credit 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 the journals, books, magazines, reports, dissertations, theses, *etc.*, or available at websites and have not included them in this Ph.D. thesis and have not cited as my own work.

Date: April 12, 2019

Place: IIT (BHU), Varanasi

Signature of the Student
(Naveen Shivavedi)

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

Dr Prasanta Kumar Nayak
(Supervisor)

Signature
(Head of the Department)

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