

## ANNEXURE – E

### CANDIDATE’S DECLARATION

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I, **Shipra Deep**, certify that the work embodied in this Ph.D thesis is my own bonafide work carried out by me under the supervision of **Prof. (Dr.) Subir Kundu** for a period of **5 years and 6 months** from **August 2010** to **January 2016** at the School of Biochemical Engineering, Indian Institute of Technology (Banaras Hindu university), 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, given credit to and referred to the research workers wherever their works have been cited in the text and the body of the thesis. I further certify that I have not willfully lifted up some other’s work, paragraph, text, data, results, etc. reported in the journals, books, magazines, reports, dissertations, thesis, etc., or available at websites and included in this Ph.D thesis and cited as my own work.

Date:

Place: IIT (BHU), Varanasi

(Shipra Deep)

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### CERTIFICATE FROM THE SUPERVISOR

This is to certify that the above statement made by the candidate is correct to the best of our knowledge.

(Prof. Subir Kundu)  
Supervisor

Signature of the Coordinator  
(Prof. S. K. Srivastava)  
School of Biochemical Engineering  
IIT (BHU), Varanasi