

## DECLARATION BY THE CANDIDATE

I, “ *Mr. Kumar Saurav*”, certify that the work embodied in this thesis is my own bona fide work and carried out by me under the supervision of “*Dr.M. R. Majhi* ”and Co-supervision of *Prof. V. K. Singh* from “2013” to “2017”, at the “*Department of Ceramic Engineering*”, Indian Institute of Technology, 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:

Signature of the Student

Place:

(“*Mr. Kumar Saurav*”)

## CERTIFICATE BY THE SUPERVISOR(S)

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

**Dr. M.R. Majhi**

**Prof. V. K. Singh**

**Supervisor**

**Co- Supervisor**

**(Department of Ceramic Engineering)**

**(Department of Ceramic Engineering)**

Signature of Head of Department/Coordinator of School(s)