



DEPARTMENT OF CERAMIC ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY
(BANARAS HINDU UNIVERSITY)
VARANASI - 221005.

CANDIDATE'S DECLARATION

I, *Ajay Kumar*, certify that the work embodied in this Ph. D. thesis is my own bonafide work carried out by me under the supervision of *Dr. Kalyani Mohanta* and co-supervision of *Prof. Devendra Kumar*, for a period of four years from July, 2010 session to June, 2014 session at *Department of Ceramic Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi*. The matter embodied in this Ph. D. 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 whenever 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, para, text, data, results, etc. reported in the journals, books, magazines, reports, dissertations, thesis, etc., or available at web-sites and included them in this Ph. D. thesis and cited as my own work.

Date

Place: Varanasi

(Signature of the candidate)

Ajay Kumar

(Name of the candidate)