

UNDERTAKING FROM THE CANDIDATE

I, Pallav Gupta, certify that the present work embodied in this Ph. D. thesis is my own bonafide work carried out by me under the supervision of Prof. Devendra Kumar and co-supervision of Prof. Om Parkash (Department of Ceramic Engineering, IIT(BHU), Varanasi, India) & Prof. A. K. Jha (Department of Mechanical Engineering, IIT(BHU), Varanasi, India) for a period of 3 years and 8 months from July 2011 to February 2015 in the Department of Ceramic Engineering, Indian Institute of Technology (Banaras Hindu University). The contents included in this Ph. D. thesis have not been submitted for the award of any other degree.

Date:

(Pallav Gupta)

Place: Varanasi



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ANNEXURE F

COURSE WORK/ COMPREHENSIVE EXAMINATION COMPLETION CERTIFICATE

This is to certify that Mr. Pallav Gupta, a bonafide research scholar of this department, has successfully completed the course work/comprehensive examination requirement which is a part of his Ph. D. programme.

Date:

Place: Varanasi

(Head of the Department)



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ANNEXURE F

Pre Ph.D. SEMINAR COMPLETION CERTIFICATE

This is to certify that **Mr. Pallav Gupta**, Ph. D. scholar of the Department (Enrollment No. 311528) has delivered his Pre Ph.D. seminar on **20th September, 2014** on the topic **“Structural, Mechanical and Electrochemical Studies of Iron-Alumina Metal Matrix Nanocomposites”** in the Computer Room of the Department to the satisfaction of DPGC, DRC and RPC members.

Date:

(Head of the Department)

Place: Varanasi

ANNEXURE G

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**Title of the Thesis: Structural, Mechanical and Electrochemical
Studies of Iron-Alumina Metal Matrix
Nanocomposites**

Candidate's Name: Pallav Gupta

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