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My family

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# विद्युत अभियांत्रिकी विभाग भारतीय प्रौद्योगिकी संस्थान (काशी हिन्दू विश्वविद्यालय) वाराणसी

DEPARTMENT OF ELECTRICAL ENGINEERING  
Indian Institute of Technology (Banaras Hindu University) Varanasi

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## Under taking from the Candidate

I, Brijesh Singh, declare that I have pursued my research work under the Supervision of Prof. S.P. Singh and Prof. R. Mahanty from August 2009 to April 2014. I hereby submit my thesis entitled “Congestion Management with Social Welfare in Deregulated Power System” for the award of Ph.D. degree.

Date:

Place: *Varanasi*

(Brijesh Singh)



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**भारतीय प्रौद्योगिकी संस्थान (काशी हिन्दू विश्वविद्यालय) वाराणसी**  
**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**Indian Institute of Technology (Banaras Hindu University) Varanasi**

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**CANDIDATE'S DECLARATION**

I, Brijesh Singh, certify that the work embodied in this Ph. D. thesis is my own bonafide work carried out by me under the supervision of Prof. S. P. Singh and the co-supervision of Prof. R. Mahanty for a period of four years and nine months from August 2009 to April 2014 at Banaras Hindu University. 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 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, para, text, data, results, etc. reported in the journals, books, magazines, reports, dissertations, theses, etc., or available at web-sites and included them in this Ph. D. thesis and cited as my own work.

Date:

Place: *Varanasi*

(Brijesh Singh)

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**Certificate from the Supervisor/Co-supervisor**

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

Prof. R. Mahanty  
(Professor)  
Co-Supervisor

Prof. S. P. Singh  
(Professor)  
Supervisor

(Head of the Department)



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## COURSE WORK/COMPREHENSIVE EXAMINATION COMPLETION CERTIFICATE

This is to certify that Sri Brijesh Singh (Term No. July 09/T-19, Enrol. No. 317885), a bonafide research scholar of Electrical Engineering department, has satisfactorily 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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### PRE-SUBMISSION SEMINAR COMPLETION CERTIFICATE

This is to certify that Sri Brijesh Singh (Term No. July 09/T-19, Enrol. No. 317885), a bonafide research scholar of Electrical Engineering department, has satisfactorily completed the pre-submission seminar on the topic “**Congestion Management with Social Welfare in Deregulated Power System**” on October 30, 2013 (Wednesday) which is a part of his Ph. D. programme.

Date:

Place: Varanasi

(Head of the Department)



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Candidate's Name: Brijesh Singh

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