



**DEPARTMENT OF CIVIL ENGINEERING**

**INDIAN INSTITUTE OF TECHNOLOGY**

**(BANARAS HINDU UNIVERSITY)**

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## Forwarded

Signature of the Supervisor  
(Dr. P. R. Maiti)  
Assistant Professor  
Department of Civil Engineering  
Indian Institute of Technology  
(Banaras Hindu University)  
Varanasi-221005

Signature of the HOD with seal  
(Prof. Devendra Mohan)  
Professor and Head  
Department of Civil Engineering  
Indian Institute of Technology  
(Banaras Hindu University)  
Varanasi-221005



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### UNDERTAKING FROM THE CANDIDATE

I, **Sabita Madhvi Singh**, research scholar under the supervision of **Dr. P. R. Maiti**, Assistant Professor, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi, give undertaking that the thesis entitled **“Flow Characteristics around Slender Structure and its Influence on Channel Morphology”** submitted by me for the degree of **Doctor of Philosophy** is a record of first-hand research work done by me during the period of study.

I do further undertake the responsibility for mistakes, error of facts and misinterpretations, if any, in the thesis, which is of course entirely of my own.

Date - 12/8/2014

Place: Varanasi

(Signature of the candidate)

Sabita Madhvi Singh

(Name of the candidate)



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*ANNEXURE-E*

### **CERTIFICATE FROM THE SUPERVISOR**

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

Signature of the Supervisor  
(Dr. P. R. Maiti)  
Assistant Professor  
Department of Civil Engineering  
Indian Institute of Technology  
(Banaras Hindu University)  
Varanasi-221005

Signature of the HOD with seal  
(Prof. Devendra Mohan)  
Professor and Head  
Department of Civil Engineering  
Indian Institute of Technology  
(Banaras Hindu University)  
Varanasi-221005



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*ANNEXURE-F*

**COURSE WORK/ COMPREHENSIVE EXAMINATION  
COMPLETION CERTIFICATE**

This is to certify that *Mrs. Sabita Madhvi Singh*, a bonafide research scholar of this department, has successfully completed the Ph. D. course work examination which is a part of her Ph. D. program.

Date – 12/08/2014

Place: Varanasi

(Signature of the Head of the Department)



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*ANNEXURE-F*

**PRE-SUBMISSION SEMINAR COMPLETION  
CERTIFICATE**

This is to certify that ***Ms. Sabita Madhvi Singh***, a bonafide research scholar of this department, has successfully completed the pre-submission seminar held on 22<sup>nd</sup> February, 2014 which is a part of her Ph. D. program.

Date – 12/ 08/ 2014

Place: Varanasi

(Signature of the Head of the Department)



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ANNEXURE-G

## COPYRIGHT TRANSFER CERTIFICATE

Title of the Thesis: “*Flow Characteristics around Slender Structure and its Influence on Channel Morphology*”.

Candidate’s Name: *Sabita Madhvi Singh*

### Copyright Transfer

The undersigned hereby assigns to the IIT (B.H.U.) Varanasi all rights under copyright that may exist in and for the above thesis submitted for the award of the Ph. D. degree.

Signature of the candidate

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