

# **APPLICATION OF VARIABLE FREQUENCY TRANSFORMER (VFT) FOR INTEGRATION OF WIND ENERGY SYSTEM**

**Ph.D. THESIS**

*by*

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JANUARY, 2017**

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**A THESIS**

*Submitted in partial fulfilment of the  
requirements for the award of the degree*

*of*

**DOCTOR OF PHILOSOPHY**

*in*

**ALTERNATE HYDRO ENERGY CENTRE**

*by*

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## CANDIDATE'S DECLARATION

I hereby certify that the work which is being presented in the thesis entitled “**APPLICATION OF VARIABLE FREQUENCY TRANSFORMER (VFT) FOR INTEGRATION OF WIND ENERGY SYSTEM**” in partial fulfilment of the requirements for the award of the Degree of Doctor of Philosophy and submitted in the Alternate Hydro Energy Centre of the Indian Institute of Technology Roorkee is an authentic record of my own work carried out during a period from July, 2012 to January, 2017 under the supervision of Dr. D. K. Khatod, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology Roorkee, Roorkee.

The matter presented in this thesis has not been submitted by me for the award of any other degree of this or any other institute.

**(FARHAD ILAHI BAKHSH)**

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

**(D. K. KHATOD)**

Supervisor

The Ph. D. Viva-Voce Examination of **Mr. Farhad Ilahi Bakhsh**, Research Scholar, has been held on .....

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**Signature of External Examiner**

This is to certify that the student has made all the corrections in the thesis.

**Signature of Supervisor**

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**Dated:** \_\_\_\_\_