

## DECLARATION

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I, **Vineet Kumar Dhankar** hereby certify that the work which is being presented in this Major report entitled “**Wind effect on tall structure**” by me in partial fulfillment of the requirement for the award of degree of Master of Engineering with specialization in Structural Engineering from Delhi College of Engineering, Delhi is an authentic record of my own work carried under the supervision of **Dr. Munendra Kumar**. The matter presented in this report has not been submitted in any University/Institute for the award of Master of Engineering.

**(Vineet Kumar Dhankar)**

Signature of Student

Date: \_\_\_\_\_

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

**Dr. Munendra Kumar**

(Assistant Professor)

Date :

## ACKNOWLEDGEMENT

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It is a great pleasure to have the opportunity to extend my heartiest felt gratitude to everybody who helped me throughout the course of this project.

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## ABSTRACT

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The design of buildings must take into consideration the lateral drift of the structure due to wind loading and any serviceability issues that may arise from this lateral movement. Modern Tall buildings designed to satisfy lateral drift requirements, still may oscillate excessively during wind storm. Sometimes these oscillations may even cause discomfort to the occupants even if it is not in a threatening position for the structural damage. So an accurate assessment of building motion is an essential prerequisite for serviceability.

This report begins with a comprehensive review of the literature that covers all pertinent aspects of wind drift in buildings. Next an explanation of the procedure of analysis procedure is studied. A study is carried out in which height wise design forces are computed by analytical method (IS 875) and base shear is calculated. Due to different height of building both static and dynamic analysis is done using IS 875.

This report also carries a study of difference in Base bending moment as per different international codes and standards.

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