

## DECLARATION BY THE CANDIDATE

I declare that the thesis entitled “Nanofluids for Efficient Heat Transfer Applications using Solar Energy for Chemical Process”, submitted by me for the degree of **Doctor of Philosophy in Chemical Engineering** is the record of work carried out by me during the period from **13/10/2010 to 23/01/2017** under the guidance of **Dr. Daulat Ram Saini** at Department of Chemical Engineering, Vishwakarma Institute of Technology, Bibwewadi, Pune and has not formed the basis for the award of any degree, diploma, associateship, fellowship, titles in this or any other university or other institution of higher learning.

I further declare that the material obtained from other sources has been duly acknowledged in the thesis.



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**Place:** Pune