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Date:

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled “Thermodynamic and thermoelectric properties of nanostructured TiO_2 , SnO_2 and their composites” being submitted by Ms. Purvi A. Bhatt, Applied Physics Department, Faculty of Technology and Engineering, The M.S. University of Baroda for the degree of *Doctor of Philosophy* in *Applied Physics* has been carried out by her from December 2011 to December 2015 under my guidance. The matter presented in this thesis is original and has not been submitted for the award of any other degree or diploma.

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