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### CERTIFICATE

This is to certify that the work presented in the thesis entitled “**Investigation of Properties of Recombination Inhibiting Barrier Layer for Dye Sensitized Solar Cell**”, submitted by **Piyush Jayantilal Bhatt** (Reg. no.: FOTE/904, dated: 31/05/2016) for the award of the degree of **Doctor of Philosophy** in Applied Physics, includes the original research work carried out by him under my supervision in the *Applied Physics Department*, Faculty of *Technology and Engineering*, *The Maharaja Sayajirao University of Baroda*, Vadodara, Gujarat, India.

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