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### **Certificate from the Research Advisor**

This is to certify that the present work entitled “Density Functional Theory Study of Colossal Magnetoresistance Material  $\text{La}_{0.67}\text{Sr}_{0.33}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$  Prepared Using Two Different Routes” is a piece of work done by Ms. Nidhi M. Astik under my guidance and supervision for the award of the degree of the Doctor of Philosophy from The Maharaja Sayajirao University of Baroda, Vadodara, India and the candidate has taken more than two years attendance in completion of the work. This is to certify that she has published two papers in international journal for the degree of Doctor of Philosophy

To the best of my knowledge and belief the thesis

1. embodies the work of the candidate herself,
2. has been duly completed,
3. fulfill all the necessary ordinances related to the Ph. D. degree of the University,
4. is up to the standard both from the content point of view and language for being referred to the examiner.

**(Prafulla K. Jha)**

**Research Advisor**