

**BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI**

**CERTIFICATE**

This is to certify that the thesis entitled **Fault Diagnosis of Rolling Element Bearing with Multiple localized Defects using Mathematical Modeling and Experimental Analysis.** and submitted by **ROHIT SHAMRAO GUNERKAR** ID No **2015PHXF0013P** for award of Ph.D. of the Institute embodies original work done by him/her under my supervision.

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