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Certificate

It is certified that the work contained in this thesis entitled “**Assessment of nonlinear responses and bifurcation analysis of light-weight shaft disk system with different loading configurations**” submitted by **Mr. Phadatare Hanmant Pandurang** to the Indian Institute of Technology Jodhpur for the award of the degree of Philosophy has been carried out under my supervision in the Department of Mechanical Engineering, Indian Institute of Technology Jodhpur. This work has not been submitted elsewhere for the award of any other degree or diploma.

The thesis, in my opinion, has reached the standard fulfilling the requirements for the award of the degree of Doctor of Philosophy in accordance with the regulations of the Institute.

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