

DECLARATION

I hereby declare that the thesis entitled **“SYNTHESIS AND CHARACTERIZATION OF Mn AND Ru DOPED COBALT OXIDE THIN FILMS FOR THEIR USE IN SUPERCAPACITOR APPLICATIONS”** submitted for the award of degree of Doctor of Philosophy in the Faculty of Science of the Solapur University, Solapur has been completed and written by me has not previously formed the basis for the award of any Degree or Diploma or other similar title of this or any other University in India or any other country or examining body to the best of my knowledge.

Place: Solapur

Research Student,

Date:

(Mr. Surendra Vitthal Khavale)

CERTIFICATE

This is to certify that the thesis entitled, **“SYNTHESIS AND CHARACTERIZATION OF Mn AND Ru DOPED COBALT OXIDE THIN FILMS FOR THEIR USE IN SUPERCAPACITOR APPLICATIONS”**, which is being submitted herewith for the award of the degree of **Doctor of Philosophy** in **Physics** of Solapur University, Solapur is the result of the original research work completed by **Mr. Surendra Vitthal Khavale** under my supervision and guidance and to the best of my knowledge and belief the work embodied in this thesis has not formed earlier the basis for the award of any degree or similar title of this or any other University or examining body.

Place: Solapur

Date:

Research Guide

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