Declaration by the Candidate

I declare that the thesis entitled “Modulation of Monsoon Intra-seasonal Oscillations by Global Warming” submitted by me for the degree of Doctor of Philosophy is an authentic record of the work carried out by me at Indian Institute of Tropical Meteorology, Pune during the period November 2010 to November 2013 under the guidance of Dr. A. Suryachandra Rao (Guide) and Prof. B.N. Goswami (Co-Guide) and has not formed the basis for the award of any degree, diploma, associateship, fellowship, title in this or any other University or other institution of higher learning. I further declare that the material obtained from other sources has been duly acknowledged in the thesis.

Date: November 2013
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Declaration under rule 4(E) of the rules for the degree of Doctor of Philosophy (PhD) of the University of Pune.

It is certified that in the case of all joint papers incorporated in the thesis, the major contribution to the papers is by the candidate. Contributions by the co-authors other than the guide have been only in respect of providing supports like processing of data and assistance in computations.

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