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Declaration by the Candidate

I hereby declare that the work presented in the thesis entitled **Green Cooperative Device-to-Device and Spectrum Sharing Systems: Modeling, Design, and Performance Analysis** in partial fulfillment of the requirements for the award of the Degree of **Doctor of Philosophy** and submitted in the Department of Electrical and Electronics Engineering of the Birla Institute of Technology and Science, Pilani is an authentic record of my own work carried out during a period from August 2016 to April 2021 under the supervision of **Dr. Sainath Bitragunta**, Department of Electrical and Electronics Engineering, Birla Institute of Technology and Science, Pilani.

The matter presented in this thesis has not been submitted by me for the award of any other degree of this or any other Institute/University.

Rahul Sharma
(2016PHXF0006P)

This is to certify that the above statement made by the candidate is true to the best of my knowledge and belief.

B Sainath

Place: Pilani

Date: 03/12/2021

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