## **CERTIFICATE**

This is to certify that the thesis entitled "Assessment of atmospheric carbon dioxide and aerosols from ground spectroradiometry and hyperspectral image analysis" submitted by Shri Santanu Roy, who got his name registered for PhD programme under my supervision (Registration Number: R-18RS09160151 and date of registration: 28th August 2019) and that neither his thesis nor any part of the thesis has been submitted for any degree/diploma or any other academic award anywhere before.

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