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## **Certificate**

This is to certify that the thesis entitled “**Green synthesis and sensor applications of indolizine and cyclazine derivatives**” submitted to Mahatma Gandhi University, Kottayam, Kerala in partial fulfilment of the requirement for the award of the Degree of Doctor of Philosophy is a bonafide record of the work carried out by Sheela Gopal M. under my supervision and guidance at the Research centre, Maharaja’s College, Ernakulam. Also certified that no part of the thesis has formed the basis for the award of any Diploma, Degree or other similar titles of any kind of any university.

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