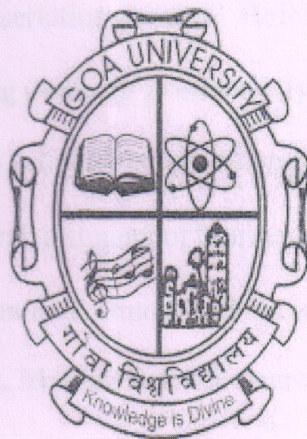


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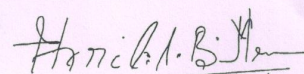


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AUGUST, 2020

CERTIFICATE

This is to certify that this dissertation entitled “ **Role of bottom generated shear and turbulence in moulding primary productivity of an estuarine ecosystem - A time series analysis**” is a bonafide and an authentic record of the research carried out by **Ms Nidhi Johri**, a student of Marine Sciences, under my guidance at the School of Earth, Ocean and Atmospheric Sciences, Goa University, Goa, in partial fulfilment of **MSc, Marine Science** degree of the University and that no part has been presented before for any other degree or diploma in any university.

DATE: 12-08-2020



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