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## *Certificate*

This is to certify that the thesis entitled “**Management of stress induced hypotesticular dysfunctions by a novel nutraceutical- lycopene in rat: genomic and proteomic approach for infertility management**” is the original research work and has been carried out by **Miss. Adrija Tripathy** under my active supervision and guidance. This work has not been submitted earlier in full or part for any degree and diploma in this or any other University in India or abroad. She fulfilled all the terms and conditions laid down for the Ph.D. examination (Science) of Vidyasagar University.



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