

Date: 16.07.2022

**CERTIFICATE**

This is to certify that the work presented in this dissertation entitled “**THE GENE EXPRESSION ANALYSIS OF MMP3 GENE IN KNEE OSTEOARTHROSIS**” submitted for the partial fulfillment of the award of Master’s Degree in Biotechnology, Department of Biotechnology, Kakatiya University, has been carried out by **Ms. Kashuvojjwala Jahnavi (Roll No:21000S1606)** under my supervision from 2<sup>nd</sup> June, 2022 to 16<sup>th</sup> July, 2022. This report incorporates original results of her study and it has not formed the basis of any degree or diploma in part or full prior to this date.



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