



The Maharaja Sayajirao University of Baroda

**DEPARTMENT OF ZOOLOGY
FACULTY OF SCIENCE
VADODARA 390 002, INDIA**



CERTIFICATE

This is to certify that the thesis entitled “**Protective Role of *Sida rhomboidea*.Roxb Leaf Extract on High Fat Diet Induced Metabolic Disorders: Biochemical and Molecular Evaluation in *in vivo* and *in vitro* Experimental Models**” incorporates results of investigation carried out by the candidate herself in the Department of Zoology, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara.

Ms.Thounaojam Menaka Chanu
(Ph.D Student)

Dr. Ranjitsinh V Devkar
(Guiding Teacher)



*"I take refuge at the lotus feet of the Lord of my
soul
Shri Raj Ji
and seek the grace and mercy of the self-sportive
Dual Form
Shri Raj - Shyamaji"*

Dedicated to my Father

(L) Mr. Luwang Athouba Nehru



*You always had a smile to share,
Time to give,
And time to care.
A loving nature,
A heart of gold,
You were the best this world could hold*