## **CERTIFICATE**

It is certified that the work contained in the thesis titled "Synthesis of biodiesel from indigenous non-edible feedstocks (used vegetable oil and kusum oil) using heterogeneous base catalysts" by Ms. Meena Yadav has been carried out under my supervision and that this work has not been submitted elsewhere for a degree.

It is further certified that the student has fulfilled all the requirements of Comprehensive Examination, Candidacy and SOTA for the award of Ph.D. Degree.

Prof. Yogesh Chandra Sharma (Supervisor)

Department of Chemistry,
Indian Institute of Technology
(Banaras Hindu University),
Varanasi-221005, India