## CERTIFICATE

I hereby certify that the entire work embodied in the dissertation entitled " Applications of Crown Ethers in Organic Synthesis" has been carried out by Smt.S.J. Jagdale under my guidance and supervision in the department of Chemistry, Shivaji University, Kolhapur and that any part of it has been not submitted for any degree, diploma or membership of any University or institute previously.

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Pate - 14.8.95

Lalem like Dr. M.M. Salunkhe.

Research Guide.