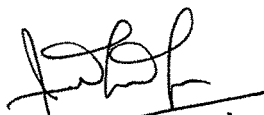


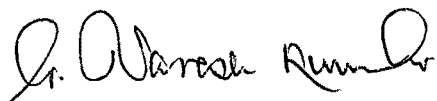
**STATEMENT UNDER O. Ph.D. 8/ (iii) OF THE M.S.
UNIVERSITY OF BARODA, VADODARA**

This is to certify that the work presented in this thesis is original and was obtained from the studies undertaken by me under the supervision of **Dr. G. Naresh Kumar.**

Baroda
Date: 4.2.2000


R. Karunakaran

This is to certify that this work presented in the form of a thesis in fulfillment of the requirement for the award of the Ph.D degree of the M.S. University of Baroda by Mr. R. Karunakaran is his original work. The entire research work and the thesis have been built up under my supervision.



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