DECLARATION

I hereby declare that

1) The thesis embodies the results of original research work carried out by me under the supervision of Professor U. Aswathanarayana. Most of the experimental work was done by me when I was a Commonwealth Academic Staff Scholar in the Department of Earth Sciences, University of Leeds, Leeds, U.K. during 1974-76.

2) The concepts and data drawn from published and other sources have been suitably acknowledged.

3) The results of REE study on the Dhandhuka flows are not included in the thesis but are kept as a paper (Under Publication "Lithos", Vol. 10, 1977) in the pouch.

4) The thesis in its present form has not been published or submitted for award of any other diploma, degree or prize of any other University.

Countersigned

U. Aswathanarayana

(U. Aswathanarayana)
Supervisor
Professor of Geology
Department of Applied Geology
University of Saugar
SAGAR (M.P.)

[Signature]

Forwarded.

[Signature]

29.1.1977

Professor & Head
of the Dept. of Applied Geology
University of Saugar