ACKNOWLEDGEMENTS

The author is extremely grateful to Dr. A. Goswami, Ph.D. (London), D.Sc. (London), Assistant Director, National Chemical Laboratory, Poona 8, for his guidance, supervision, encouragement and keen interest in the present investigation.

The author wishes to thank the Director, National Chemical Laboratory, Poona 8, for permission to submit this work in the form of a thesis, and to the Council of Scientific and Industrial Research, New Delhi, for the award of Junior Research Fellowship.

He is also grateful to all his colleagues in the Electron Diffraction and Thin Films Laboratory for their hearty co-operation during the present investigation.

(SURESHCHANDRA M. OJHA)

26-12-73