

**INVESTIGATION ON SOME
ANTIFERROELECTRIC LIQUID CRYSTALS
AND THEIR MIXTURES**

**THESIS SUBMITTED TO THE UNIVERSITY OF NORTH BENGAL
FOR THE AWARD OF THE DEGREE OF DOCTOR OF
PHILOSOPHY (SCIENCE) IN PHYSICS**

**BY
KARTICK CH. DEY**

**SUPERVISOR
PROF. PRADIP KUMAR MANDAL**

**DEPARTMENT OF PHYSICS
UNIVERSITY OF NORTH BENGAL
RAJA RAMMOHUNPUR, DIST: DARJEELING, PIN: 734013
WEST BENGAL, INDIA**

FEBRUARY, 2020