

**CRYSTAL STRUCTURE, PHASE COEXISTENCE AND
PHASE TRANSITIONS IN NANOCRYSTALLINE
 $R_{0.5}A_{0.5}MnO_3$ (R=La, Nd, Sm and A= Ca, Sr) PEROVSKITES**



THESIS SUBMITTED FOR THE DEGREE OF

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in

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by

Uma Shankar

SCHOOL OF MATERIALS SCIENCE AND TECHNOLOGY

INDIAN INSTITUTE OF TECHNOLOGY

BANARAS HINDU UNIVERSITY

VARANASI-221005, INDIA

Enrolment No. 307917

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Dedicated
To
My Beloved Family