



Laboratory Manual

Science

Class X

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राष्ट्रीय शैक्षिक अनुसंधान और प्रशिक्षण परिषद्
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FOREWORD

The National Council of Educational Research and Training (NCERT) is the apex body concerning all aspects of school education. It has recently developed textual material in Science for the secondary stage which is based on the National Curriculum Framework–2005. NCF–2005 recommends that children’s experience in school education must be linked to the life outside school so that learning experience is joyful and fills the gap between the experience at home and in community. It recommends to diffuse the sharp boundaries between different subjects and discourages rote learning. The syllabi and the textual material developed recently is an attempt to implement this basic idea. The present Laboratory Manual will be complementary to the Science textbook for Class X. It is in continuation to the NCERT’s efforts to improve upon comprehension of concepts and practical skills among students. The purpose of this manual is not only to convey the approach and philosophy of the laboratory course to students and teachers but also to provide them appropriate guidance for carrying out experiments in the laboratory. This manual is supposed to encourage children to reflect on their own learning and to pursue further activities and questions. Of course the success of this effort also depends on the initiatives taken by the principals and teachers to encourage children to carry out experiments in the laboratory and to develop their own thinking and nurture creativity.

The methods adopted for performing the practicals and their evaluation will determine how effective this practical book will prove to make the children’s life at school a happy experience, rather than a source of stress and boredom. This laboratory manual attempts to provide space to opportunities for contemplation and wondering, discussion in small groups, and activities requiring hands-on experience. It is hoped that the material provided in this manual will help students in carrying out laboratory work effectively and will encourage teachers to introduce some open-ended experiments at the school level.

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21 May 2008

YASH PAL
Chairman
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