

PREFACE

“Science and Technology – Achievements and Highlights” has been prepared by the Waterfalls Institute of Technology Transfer, arising out of an assignment given by the Department of Science and Technology (International Division), Ministry of Science and Technology, New Delhi.

2. S&T Achievements and Highlights have been compiled for being presented to many officials who visit DST during a year and also others who wish to learn the progress India is making in the field. This compilation provides a reasonable description pointing out the scientific or technological advancement in the country in 2009-2010. The S&T achievements and highlights would be revised and updated every year.

3. A draft “S&T Achievements in India: Highlights” prepared was presented to the DST in January 2010 and based on the feed back, a revised collection has been assembled.

4. This compilation is broadly arranged in two parts. The first part deals with achievements over a period of a year. S&T Achievements have been selected on a criteria or standard which demonstrate in a particular case where a breakthrough has been reported, which brings national pride and or has immense utility to the country. Truly, the achievements are major events of a year.

5. The second part deals with highlights and this has been categorised in 17 sub-headings such as Space, Biotechnology and Medical Sciences covering frontier areas of science and technology on the one hand and several aspects covering basic needs such as food, clothing, shelter, health and environment on the other.

6. Thus, the sub-headings for S&T Highlights are Space, Biotechnology, Medical Sciences, Drug & Pharma, Energy Generation, Energy Utilisation, Defence and Information / Communication Technology among the frontier areas of S&T; Food, Water Conservation & Utilisation, Building & Construction, Textiles, Environment, Healthcare /

Electronics, Electrical or Mechanical Devices and Production. The seventeenth sub section is miscellaneous.

7. In all about 70 items are presented. After collecting over 150 items announced in 2009-10, it was shortlisted. This was an unpleasant task in having to omit many seemingly interesting items. The prime focus on any item in any of the 16 subsections, is a product and not the name of the inventor or scientific researcher. Each achievement or highlight reported also incorporates one or two photographs alongwith the salient features of the same.

8. A large part of the materials assembled have been taken from latest Annual Reports of different S&T Departments like DST, DSIR, DBT, DOS, DRDO, DAE etc, latest media news and periodicals. Thereafter they were searched for in the internet to get additional information required for this compilation. Therefore all credits and appreciation should go to the organisations who had reported their success in their scientific and technological work programme.

9. This compilation of S&T Achievements and Highlights has been reviewed by Dr J Dhar, Mr K N Johry and Mr P G S Mony, Advisors to Waterfalls Institute of Technology Transfer on this project. I wish to express my appreciation to them for their comments and suggestions. A word of special appreciation is due to Mrs. Lalitha Gosal, Joint Director for her untiring enthusiasm and commitment to this project.

10. The Institute wishes to place on record its thanks to Secretary (DST) and scientists of the International Cooperation Division of Department of Science and Technology for their encouragement in assembling this compilation.

11. Comments and suggestions for improvements and additions will be welcome and would be taken into account in the future compilations.

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Chairman

New Delhi

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