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FOREWORD

The mandate of the Department of Science and Technology (DST) includes generation of a reliable data base on Research and Development of India. It is only to be expected that decisions of a nation be made based on evidence and correlations between inputs and outputs. DST has been collecting and collating valuable statistics on Research and Development for as many as 30 years. Science and Technology seem to have become an important part of national agenda in recent times. DST foresees an even higher importance to the Statistics on research and development in the years to come to answer question as to whether the rate of growth of science and technology in India is keeping pace with the requirements and does India remain competitive with respect to other nations in Asia and Pacific region?

DST has strived to gather data from a vast number of sources drawn from research laboratories, agencies, small and medium enterprises as well as peer valued publications. Details regarding manpower, gender distribution pattern, expertise base and ranges of scientific and technological activities have formed the basis of data set. Data on R&D expenditure of various sources have been gathered from both primary and secondary sources. Data mining and data reduction have posed considerable challenges. Our professional team has overcome the challenges of data base generation in a large and pluralistic country like India to a large extent. There are some inescapable situations in which data estimations are unavoidable. Under such circumstances, unusual wisdom is called for.

The publication is entirely based on in-house expertise. It is a team effort of many. The team includes Shri Rakesh Chetal, Shri Parveen Arora, Smt. Namita Gupta, Dr A N Rai, Shri Rajadurai, and many more officials. Dr Laxman Prasad, Adviser National Science and Technology Management Information System (NSTMIS) division has been the guide of the committed professional team.

The Department of Science and Technology is grateful to all the R&D establishments and in-house R&D units for their cooperation. They have provided us valuable data without which this publication would not have been possible at all. This publication has the making of a source-book for policy and planning bodies, researchers and those, who make decisions for Indian science and technology. The department acknowledges with thanks those who have made this publication possible and valuable on the one hand and welcomes suggestions for improvements in future from those who care for science. The DST is an evolving organization that seeks to undergo self transformation and make a difference to the changing science and technology landscape of the country.


(T. RAMASAMI)