

डॉ. अजित कुमार मोहान्ती  
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अध्यक्ष, परमाणु ऊर्जा आयोग  
व  
सचिव, परमाणु ऊर्जा विभाग  
Chairman, Atomic Energy Commission  
&  
Secretary, Department of Atomic Energy

## FOREWORD

The developmental efforts towards our nation becoming Viksit Bharat include sustainable energy production through environment-friendly resources. The Government is committed to achieve net zero target by 2070. Department of Atomic Energy is poised to play an important role in achieving this target through development and deployment of advanced nuclear technologies.

Sustained efforts focusing on indigenous development of technologies have resulted in achieving mastery and self-sufficiency in all domains related to nuclear energy production, from uranium exploration and mining, fuel fabrication, heavy water production, reactor design and construction, reprocessing and waste management. India has also made significant progress towards development of fast reactors for thorium utilization, as a means to achieve necessary growth of nuclear energy contribution in the forthcoming decades. A wide range of societal applications of radiation and radioisotopes has also been realized.

The progress achieved by India in nuclear energy has been possible due to the visionary steps taken by Dr. Homi J. Bhabha and the sustained pursuit of excellence and emphasis on indigenization by several pioneers of the department.

To document the achievements of DAE in the context of the “Azadi Ka Amrit Mahotsav” and to inspire the current and future generations to continue the path of excellence, HBNI had published a book on “Atomic Energy in India: Achievement since independence” in 2022 containing the developments in various domains. The articles were envisioned with a wide range of readership in mind. The present edition has further augmented the information with additional chapters and updation of earlier edition. I am sure that the current edition will be of great value to all the readers. I convey my compliments to the editors of the book, Dr. A. K. Tyagi, Dean, HBNI and Dr. P.R. Vasudeva Rao, former Vice Chancellor, HBNI for their efforts to bring out an updated edition of the book.

I wish all the readers an enjoyable and enlightening journey through this book.

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