

# Sandip Singha Roy

(Former Director Technical LWR, Distinguished Scientist - NPCIL, Dept. of Atomic Energy)

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## Summary

Served over three decades, towards the objective of increasing the nuclear power generation capacity of India in a sustainable manner and had been associated with successful implementation of Nuclear Power Projects (NPP) for Nuclear Power Corporation of India Limited (NPCIL), under the Department of Atomic Energy (DAE), Govt. of India.

Served on the Board of Nuclear Power Corporation of India Limited as Director Technical - Light Water Reactors (LWR); a full time Functional Director, appointed by, Govt. of India. Key responsibilities include developing viable strategies around performance, growth, safety and environmentally benign technology, to meet the country's expectations for expansion of nuclear power as a clean energy option.

## Selected Professional Experience and Affiliations

- Led the team of Directorate of Technical for Light Water Reactors, in the areas of design, development, engineering, safety analysis, fuel cycle management, procurement and construction of projects for various technological options. Development of a comprehensive framework, with effective interface management, for timely and cost-effective management of the construction of large size Light Water Reactor Projects and strategizing mid-course corrective measures for on-going projects.
- Led Apex Safety Review processes for projects, design and operations of NPPs at NPCIL.
- Led multiple review processes on Technical Configuration, Business Model and Commercial aspects on Project Viability, for implementation of large size NPPs in India, with various international technology options.
- Participated as member, for various nuclear regulatory review processes in India.
- Led multi-disciplinary teams, to implement project of Life Extension Program of NPP that includes critical core component replacement works, steam generator replacement, large scale up-gradation of various system and processes, as per current safety and Industrial standards.
- Consultants' meetings and Technical meetings at International Atomic Energy Agency (IAEA) and World Association of Nuclear Operators (WANO).

## Educational Qualification and Awards

### Educational Qualification

- Bachelor of Engineering: Mechanical.
- 27<sup>th</sup> Batch of Bhabha Atomic Research Centre (BARC) Training School.
- Fellow of Institute Engineers India.
- Doctor of Science (Honoris Causa).

### Selected Awards

- Kalpakkam Science and Technology Award: Special award for Applied Science -1994
- NPCIL Technical Excellence Award - 1998-99
- Indian Nuclear Society – Medal: En-masse Coolant Channel Replacement work - 2003