

Dr. Satheesh Kumar J

Scientist-D

National Centre for Coastal Research (NCCR)

Ministry of Earth Sciences, Government of India



KEY EXPERTISE

- Numerical Modelling of Coastal and Estuarine processes
- Tidal Hydrodynamics, Waves transformation, and Wave tranquility
- Sediment transport, Oil-Spill dispersion, and Siltation behaviors
- Oceanographic Field Data Collection and Analysis
- EIA study for Coastal Protection works
- Technical feasibility study for Greenfield port/fishing harbor development
- Ocean Renewable Energy Assessment

EDUCATIONAL QUALIFICATIONS

- **M. Tech. + Ph.D. Dual Degree in Ocean Engineering** (2023) from Indian Institute of Technology Bombay, Maharashtra.
- **B.E. in Civil Engineering** (2013) from K.L.N College of Information Technology, Tamil Nadu.

EMPLOYMENT RECORDS

- **Scientist 'D'**, National Center for Coastal Research, Ministry of Earth Sciences, January, 2025 - Till date.
- **Scientist 'B'**, Central Water and Power Research Station, Pune, Ministry of Jal Shakti, March, 2023 - January, 2025
- **Coastal Engineer/Modeler**. COWI India Pvt Ltd, Chennai, June, 2022 – February 2023
- **Project Research Associate**. Indian Institute of Technology Bombay, July, 2013 – June, 2022

MAJOR ACHIEVEMENTS

- Assessment of morphodynamics characteristics at selected beaches i.e. Aaravi, Anjarle, and Guhagar located along Maharashtra coastline using numerical modelling, field observation and remote sensing technique under National Hydrology Project – Purpose Driven Studies.
- Developed sediment trap system to measure a sand transport rate at Malgund beach, Ratnagiri coastline along central west coast of India for shoreline management studies.

- Carried out comprehensive analysis of siltation behaviors of Kandla port, Gujarat through numerical modelling and field observation approach.
- Numerical modelling of waves and sediment transport assessment along Puducherry coastline.
- Field observation and hydrodynamic modeling of Thane creek and Mumbai port region for National Waterway project and siltation studies.
- Tidal energy resource potential assessment for selected Indian sites i.e., Gulf of Khambhat and Andaman and Nicobar Islands using numerical modelling approach.
- Developed oil-spill dispersion modelling for Maharashtra coastline.
- Carried out Environmental Impact assessment and coastal monitoring program for anti-seawall erosion sites along the coastal stretch of Gujarat
- Completed more than 15 consultancy projects.

AWARDS/FELLOWSHIPS

- Marine Engineering Division Prize/Award received on 16 Dec 2022 for the published paper titled "Hindcast Modelling of Waves and Estimation of Power Potential in the Bay of Bengal" in the Series C/Issue 2 Journal of IEI, Volume 102 at 37th Indian Engineering Congress, Chennai.
- DAAD Scholarship to participate in the IGCS Summer School 2018 on "Coastal and River Hazard Management Strategies" at RWTH Aachen University, Germany.

MEMBERSHIPS

Professional Associations:

- Life Member, Ocean Society of India
- Life Member, The Indian Society for Hydraulics, India.

PUBLICATIONS

- 03 Book Chapters
- 09 National and International Journals
- 06 National and International Conferences
- 15+ Technical reports.