



WAVE POWERED NAVIGATIONAL BUOY



In the current development, it has been successfully demonstrated about all-weather floating buoy in the sea for powering a beacon lamp on top of the buoy and oceanographic related components using energy extracted from the ocean waves. This floating buoy is sized for the navigational requirements which can be used as a navigational buoy in ports and harbours. This wave energy device consists of floating body, oscillating water column, power module comprising of turbine and generator assembly and battery charging electrical system. All the subsystems were designed in-house and fabricated locally. The buoy is in partially submerged condition during operation. Besides serving the purpose as a navigational aid, the buoy is also useful for real time assessment of these oceanographic parameters. The product can be readymade solution as an all-weather navigational aid for usage in ports and harbours. This completely indigenous navigational buoy can be an option to imported ones.



This technology is developed by **National Institute of Ocean Technology**, Ministry of Earth Sciences, Govt. of India and seeks to stimulate the use of technology by commercialization under Make in India Initiative and **National Research Development Corporation** will facilitate for smooth transfer and licensing of the technology with affordable Licencing terms and conditions.

Any company or organization interested in the technical know-how and to get more details about the technology please refer the contact details below.

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