



INDIAN TSUNAMI BUOY SYSTEM TYPE – 2 (CHATUR)

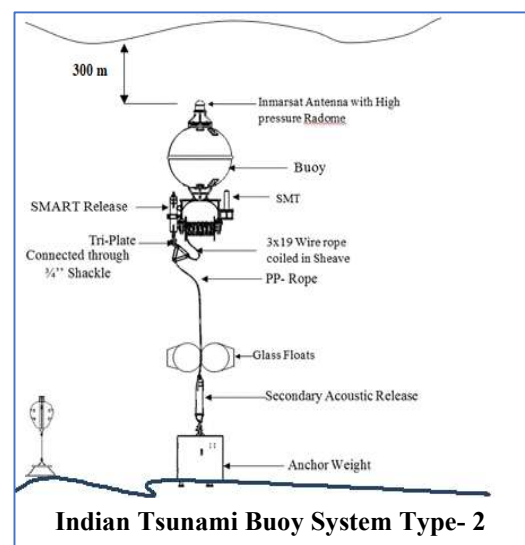


CHATUR is one variant of Tsunami Buoy System where the surface buoy is replaced with subsurface buoy. CHATUR buoy remains subsurface safely at approximately 300 m depth below sea surface. The system starts ascending to sea surface whenever it detects the tsunami message from Bottom Pressure Recorder (BPR). Once the subsurface buoy reaches the surface, the system will be in Tsunami mode and the antenna will transmit data to the shore station using satellite communication (IMARSAT, INSAT and Iridium modems). The system even after popping up to the surface will remain intact with the mooring and will behave as a surface moored buoy afterwards.

The shape of the surface buoy is cylindrical and consists of a low power Data acquisition system (CPU), central cylinder to hold electronics and battery packs, Acoustic modem, Satellite modem (INMARSAT, INSAT), Interconnection cables to connect the CPU to Satellite and acoustic modem, Acoustic modem-armor cable and RS232 buoy CPU to PC/ Laptop communication cable. This system also can be enhanced with underwater winch, so that after the passage of the event, the system will revert to the normal mode and again get submerged to the predefined depth and this cycle continues.



CHATUR System Tested at Bay of Bengal



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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