

DRISHTI

BRIEF DESCRIPTION:

Drishti is an IOT device for fish farmers that provide real-time fish weight estimate, supports in fish feed control and timely harvest. It provides insights direct from the field through SMS, assists in farm management, reduces feed wastage and input costs, while supporting grid and off-grid power modes. It is a field deployable unit to detect the fish, analyse the data for Biomass estimation. The Length-Weight Allometric equation which is available for various fish species is used for biomass estimation in real time.

SALIENT FEATURES AND APPLICATIONS:

- I-BIOMES is a battery powered standalone unit to detect and predict the Fish Biomass. The system can be used for identification of marine pathogens and their symptoms in fishes.
- The innovation is underwater miniature low power edge device that can use AI for providing field-based data insights and reduce continuous manual intervention in the field.
- It requires minimal scheduled maintenance.
- The I-BIOMES system is deployed in open floating type fish cage of Andaman in March, 2020. The real time results are acceptable and adequate enough with high efficacy. The accuracy for length measurement using this system as compared to manual measurement and existing methodologies are close to actual and it categorized and good performance.

Scale of development: Ready for licensing of Technology

