Autonomous Fast Interceptor Boat (AFIB)



The boat is an Autonomous high speed boat operating in shallow waters in and around harbour, and anchorage. The boat is highly seaworthy, unsinkable type (having 10% reserve buoyancy even when filled with water) and is able to sustain operation upto sea state 3 in open sea and also sea worthy upto sea state 4. The boat is equipped with propulsion, power generation, life saving and other engineering and electrical systems to carry out safe and reliable operations.

Salient Features of craft:

- Coastal surveillance & reconnaissance missions
- Search & Rescue operations
- Maritime law enforcement
- Sea port security, naval bases and surveillance
- Special Forces Operations

Mode of Operations:

- Remote Controlled
- Way Point Navigation
- Autonomous USV

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Ship Builders, Ship Repairers & Engineers
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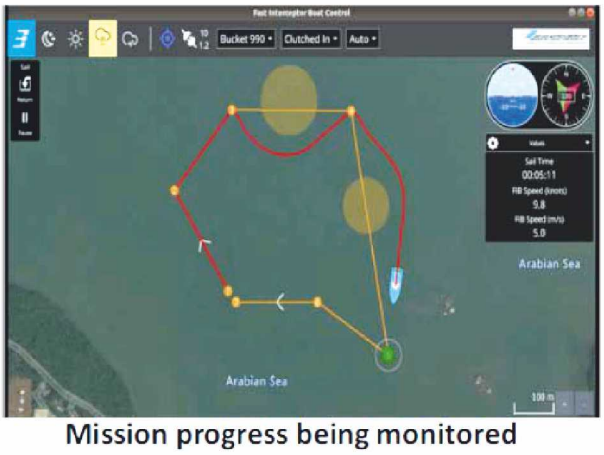
Boat sensor and equipment status view at GCS



Mission progress being monitored at GCS

General

- **Hull Material** : Fibre Reinforced Plastic (FRP)
- **Hull Type** : Hard chine semi planning
- **Classification** : IRS or any member of IACS
- **Fender** : 'D' type rubber fender all around the hull

Main Particulars

- **Length Extreme** : 15.56 m
- **Length of Waterline** : 13.70 m
- **Breadth (mid.)** : 4.10 m
- **Depth (mid.)** : 1.960 m
- **Draught(design)** : 0.9 m (Failsafe 1.4 m)
- **Displacement** : 12.9 T

Capacities

- **Carrying Capacity** : 4 crew and upto 8 passengers
- **Fuel Oil** : 2 x 600 Litres
- **Fresh Water** : 1 x 150 Litres

Performance

- **Speed(max)** : 30 knots
- **Endurance** : 150 NM at cruising speed plus 25% reserve

Propulsion System

- **Main Engine** : 2 x Cummins QSC8.3 500IDI BHP @ 2600 rpm. Diesel Engine
- **Gear Box** : 2 x ZF 286 A Reversible Gear Box
- **Propulsion** : 2 x Waterjet Kamewa FF310

Nautical, Surveillance and Communication Equipment

- **Radar** : X Band, MARPA capability
- **Lidar** : 3D point cloud, update rate 20Hz
- **Camera** : EO/IR, Full Resolution
- **Eco Sounder** : 200 Khz Chirp based sonar
- **AIS** : Class A
- **Gyroscope** : MEMS based
- **GPS** : 1-PPS, Accuracy 1 meter
- **Maritime HCRR** : 100 mbps, 16QAM, Range 30 kms
- **Data Distribution unit** : 1G ETH, USB 3.0, RS 232

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