# FISHERY RESEARCH VESSEL 6615

**“CELTIC EXPLORER”**

## GENERAL
- **Yard number**: 556050
- **Delivery date**: December 2002
- **Basic functions**: Fishery, geological and hydrographical research, environmental sampling
- **Classification**: Lloyd’s Register of Shipping #100A1, Ice class 1D, LMC, UMS, SCM “Multipurpose Research Vessel”
- **Under water noise**: Compliant with ICES, CRR report 209
- **Owner**: The Marine Institute, Dublin, Ireland

## DIMENSIONS
- **Length overall**: 65.50 m
- **Beam overall**: 15.00 m
- **Depth**: 8.40 m
- **Draught (design)**: 5.50 m

## TANK CAPACITIES
- **Fuel oil (service)**: 400 m³
- **Fresh water Cap.**: 100 m³
- **Stability tank**: Controlled passive Interring system

## PERFORMANCES
- **Speed (90% MCR)**: 14.0 kn

## PROPULSION SYSTEM
- **Main engines**: 2x DC electric motors in tandem
  - **Output**: Max. 2 x 1500 kW/180 rpm, silent execution
- **Propeller**: 1x FPP 3200 mm in extreme low noise configuration
- **Bow thruster**: Elliot Gil jet, E-motor, 720 kW
- **Stern Thruster**: CPP tunnel thruster, e-motor, 400 kW

## AUXILIARY EQUIPMENT
- **Generator sets**: 2x Wärtsilä 9L20, 1620 kW/690V
- **Emergency gen. set**: 1x Wärtsilä 6L20, 1080 kW/690V
- **1x Caterpillar 3306, 125 kW/155 kVA**

## DECK EQUIPMENT
- **Deck cranes**: 2x 15 tm, 1x 120 tm
- **A-frames**: 1x 25 ton at 3 m, 1x 10 ton at 3 m
- **Split Trawl winches**: 2x 30 ton, 3500 m wire
- **Gilson winches**: 2x 12 ton 200 m wire
- **Net drum winches**: 2x 36 ton, 10 m³ / 1x 45 ton, 10 m³
- **Net sounding winch**: 1x 5.6 ton, 3200 m wire
- **CTD winch**: 1x 6 ton, 6000 m wire
- **Hydrograph. winch**: 1x 4 ton, 2000 m wire
- **Gen. purpose winch**: 2x 10 ton, 2000 m wire

## ACCOMMODATION
- Fully air-conditioned accommodation for 31 persons (12 crew and 19 scientists).

## NAUTICAL AND COMMUNICATION EQUIPMENT
- Radio equipment according to GMDSS rules for Area A3.

## SURVEY EQUIPMENT
- Retractable keel for lowering scientific transducers.
- Acoustic Doppler Current Profiler with a 75 kHz transducer.
- Echo and multibeam sounders and sonars (12-200 kHz).
- Thermosalonograph, CTD and Rosette sampler, Motion Reference Unit and extensive meteorological instruments.