**Purchase Specifications for a
1500mm diameter Navigation Buoy**

**Overview**

This specification is for a 1500mm diameter navigation buoy.

The buoy shall have a 1.5 meter float diameter.

The buoy shall be rotationally-moulded using UV-stabilized, virgin polyethylene.

The buoy shall be of modular design consisting of three 2 parts; floatation section, and top section.

**1.0 General Characteristics**

The buoy shall be available in red, green, white or yellow as per IALA Recommendations.

The buoy shall have a focal plane height up to 1960mm.

The buoy shall have a total float volume of 1120 litres

The buoy shall have a nominal freeboard of 460mm

The buoy shall have a nominal draft of 450mm

The buoy shall have a reserve buoyancy of 280kgs.

The maximum mooring load of the buoy shall be 280kgs

The buoy shall have a maximum draft of 450mm.

The buoy shall have a minimum freeboard of 300mm.

The buoy shall have a submergence of 18.2kg/cm .

**2.0 Physical Characteristics**

The buoy shall be rotationally-moulded using UV-stabilized, virgin polyethylene.

The float section of the buoy shall have a wall thickness of 12.

The float section of the buoy shall be filled with closed-cell polyurethane foam.

The buoy shall have a height of 3500 mm.

The buoy shall have a width of 1500

The buoy shall have a mass of 220kg.

The life expectancy of the buoy shall be >20 years.

**3.0 Options**

The buoy shall be offered with the following options available from the manufacturer:

* Mould-in graphics
* Day marks
* Top marks
* Suitable marine lanterns
* Radar Reflector

**4.0 Certifications**

The manufacturer shall be ISO9001:2008 certified.

**5.0 Warranty**

The buoy shall have a five (5) year warranty.