

**ANNEX 5**

**SAMSA SMALL VESSEL BUOYANCY CERTIFICATE (Version II)**

<u>Vessel Name:</u> FISHY STORY		<u>Vessel No.:</u> DTC 12345	
<u>Description:</u> 5.5m Mono-hull GRP small fishing vessel.			
<u>Build Details</u>		<u>Principal Dimensions</u>	
Builder:	Strongboats Marine	Length Overall:	5.500 m
Date of Build:	1998	Breadth Overall:	3.650 m
Model:	SBM 55 (standard)	Depth (Gunwale to keel):	1.400m
<u>Construction</u> The vessel is of GRP construction and wood framed. Detail of the hull lay-up is not known.			
<u>Propulsion</u> 1. The recommended propulsion for the vessel is 2 x 30 hp outboard engines 2. The minimum recommended propulsion for the vessel is 2 x 20 hp or 1 x 40 hp outboard engine(s) 3. The maximum recommended propulsion for the vessel is 2 x 40 hp or 1 x 80 hp engine(s) 4. The maximum allowable weight of the outboard motors fitted may not exceed 100kg.			
<u>Built-in Buoyancy</u> 1. The under-deck of the vessel is filled with foam as is indicated on the sketch below. Volume $\approx 0.8 \text{ m}^3$ 2. A section of the vessel bulwarks on the Port and Starboard sides from the transom to 1000mm forward of the transom is foam filled. Volume $\approx 0.25 \text{ m}^3$ <u>Foam Type:</u> ISOFOAM RM 120W polyurethane foam. Total Volume of Foam $\approx 1.05 \text{ m}^3$			
<u>Design Weight</u>			
Light weight:	800 kg	<u>Deadweight</u>	
		2 x Outboard Engines (2 x 50 kg)	100 kg
		5 x Crew (5 x 75 kg)	375 kg
		Fish in Fish Hold	250 kg
		Fuel (2 x 25 kg fuel tanks)	50 kg
Deadweight	<u>875 kg</u>	Crew Effects	<u>100 kg</u>
Maximum Weight	<u>1675 kg</u>		<u>875 kg</u>
<p>➔ Foam Volume x 1.025 (for salt water) = <math>1.05 \times 1.025 = 1.076</math> tonnes</p> <p>➔ Maximum vessel weight = 1.675 tonnes</p> <p>➔ Percentage buoyancy is 64.23%</p>			

Conclusion and Comments

1. The ratio of vessel Buoyancy to Maximum Weight is in excess of 60% (actual 64.2%).
2. The additional buoyancy aft provides additional buoyancy to counter the engine weights.

**PHOTO PLACED HERE**

Approval and Operation

This vessel is approved for operations at sea from a designated protected launching site and limited to less than 15 miles offshore (category C) provided that 2 outboard engines are fitted. The vessel is not approved for surf launching due to the lack of deck drainage.

\_\_\_\_\_  
Surveyor signature

\_\_\_\_\_  
Date

NB

1. This buoyancy certificate will remain valid for the duration of the vessels life provided that no modifications are carried out on the vessel and that the vessel's light weight does not increase by more than 5%.
2. This buoyancy certificate (or a copy of it) must be kept on board the vessel when it proceeds to sea and must be presented to the surveyor at the time of survey or whenever called for by an authorised person.