



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS
MARITIME INDUSTRY AUTHORITY



MUNICIPAL FISHING BOAT/BANCA



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OUTLINE PRESENTATION

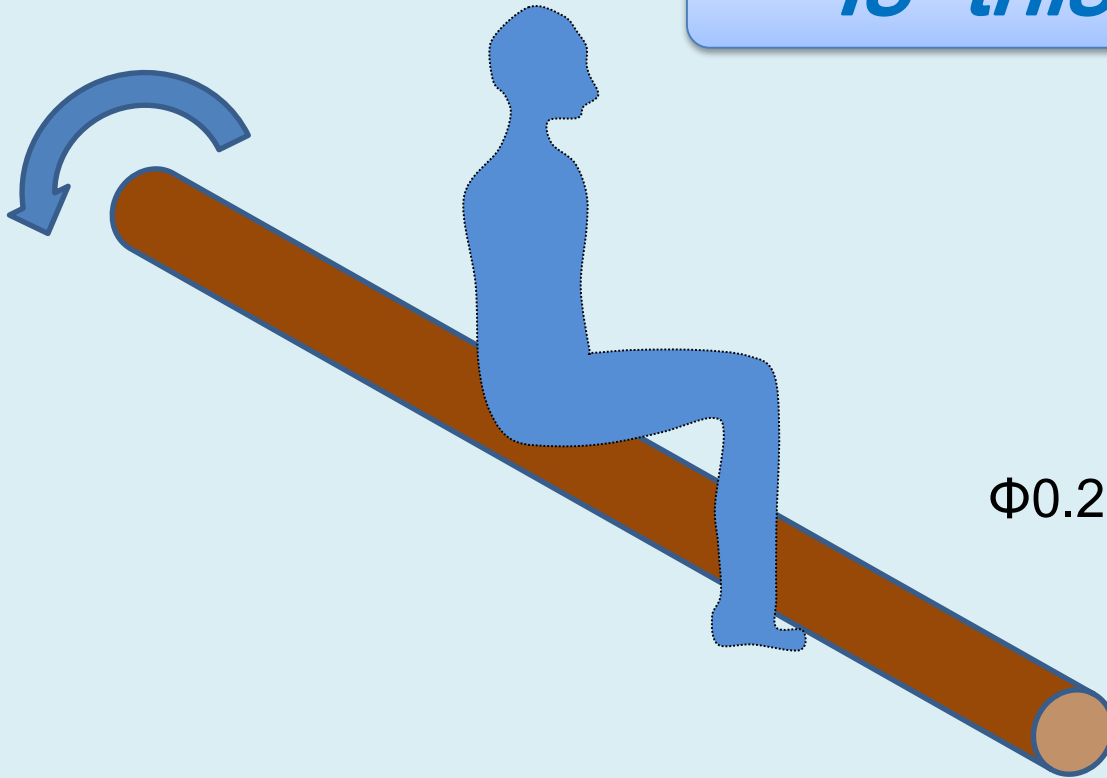
- THE BASIC IMPORTANCE IN BOAT DESIGN.
- BASIC DESIGN FOR MUNICIPAL FISHING BOAT/BANCA BELOW 3 GROSS TONNAGE (GT)
- REGISTRATION OF MUNICIPAL FISHING BOAT/BANCA

1.0

What is a boat ?



Is this a boat ?



Φ0.2m x 1.6m Timber

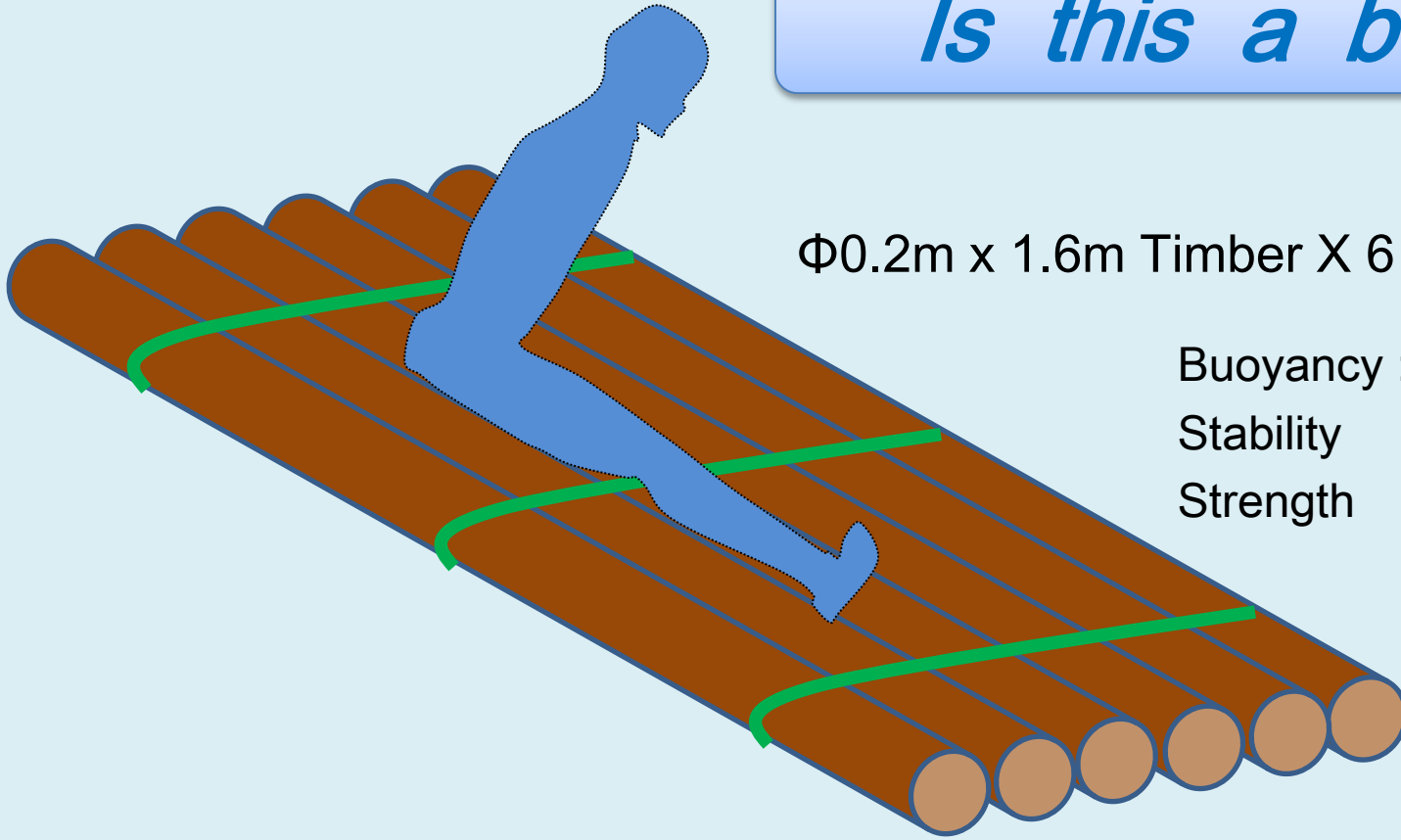
No ! Because

Buoyancy : not enough

$$3.14 \times 0.1 \times 0.1 \times 1.6 \times 1.025 = 0.051 \text{ t (51kg)}$$

Stability : not enough

Is this a boat ?



Φ0.2m x 1.6m Timber X 6

Buoyancy : enough

Stability : enough

Strength : enough

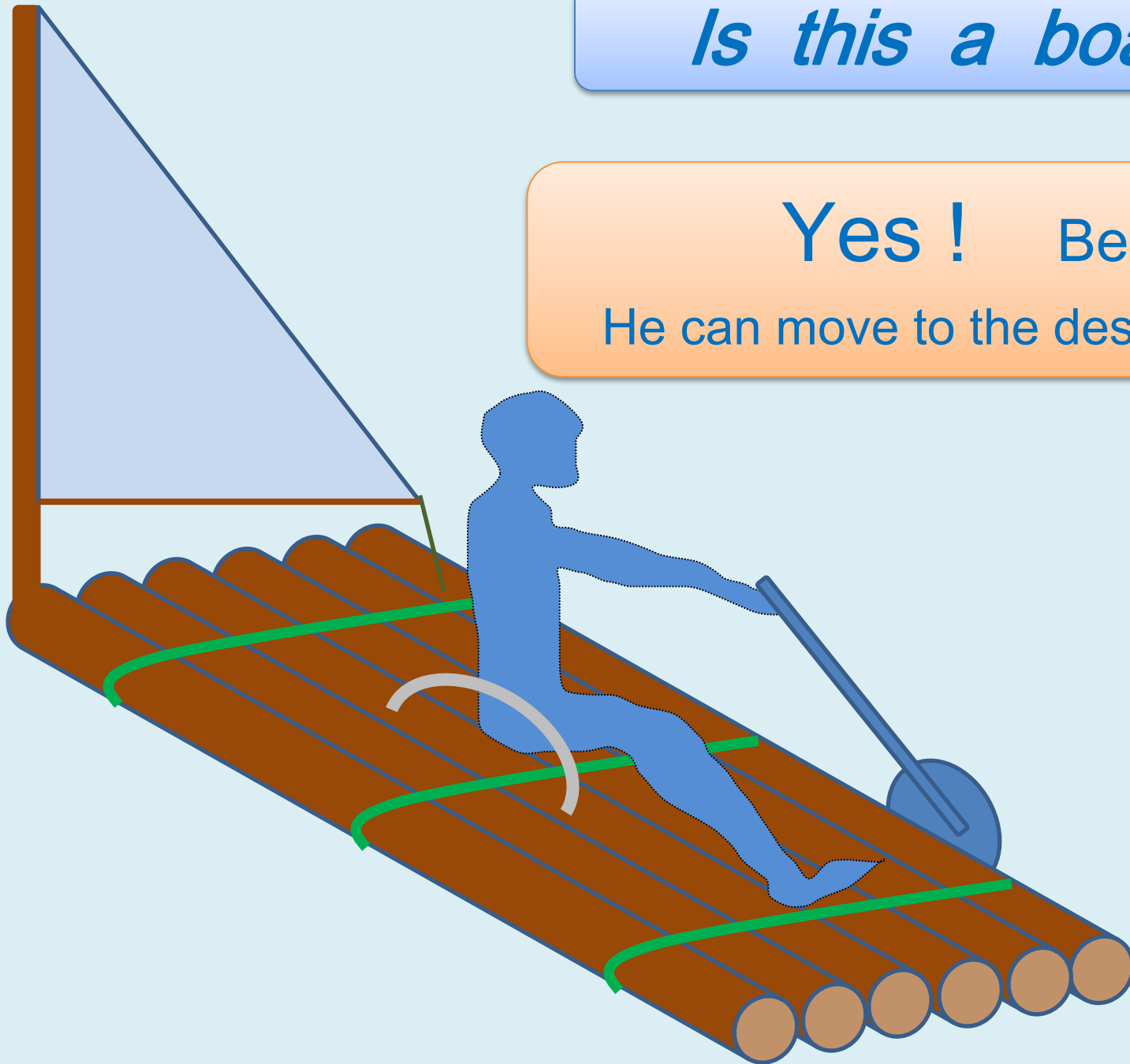
No ! Because

He can not move to the destination (fishing point, etc.)

Is this a boat ?

Yes ! Because

He can move to the destination



Boat's Duty
3C

Necessary Items
5S

Can float

Can move

Can carry

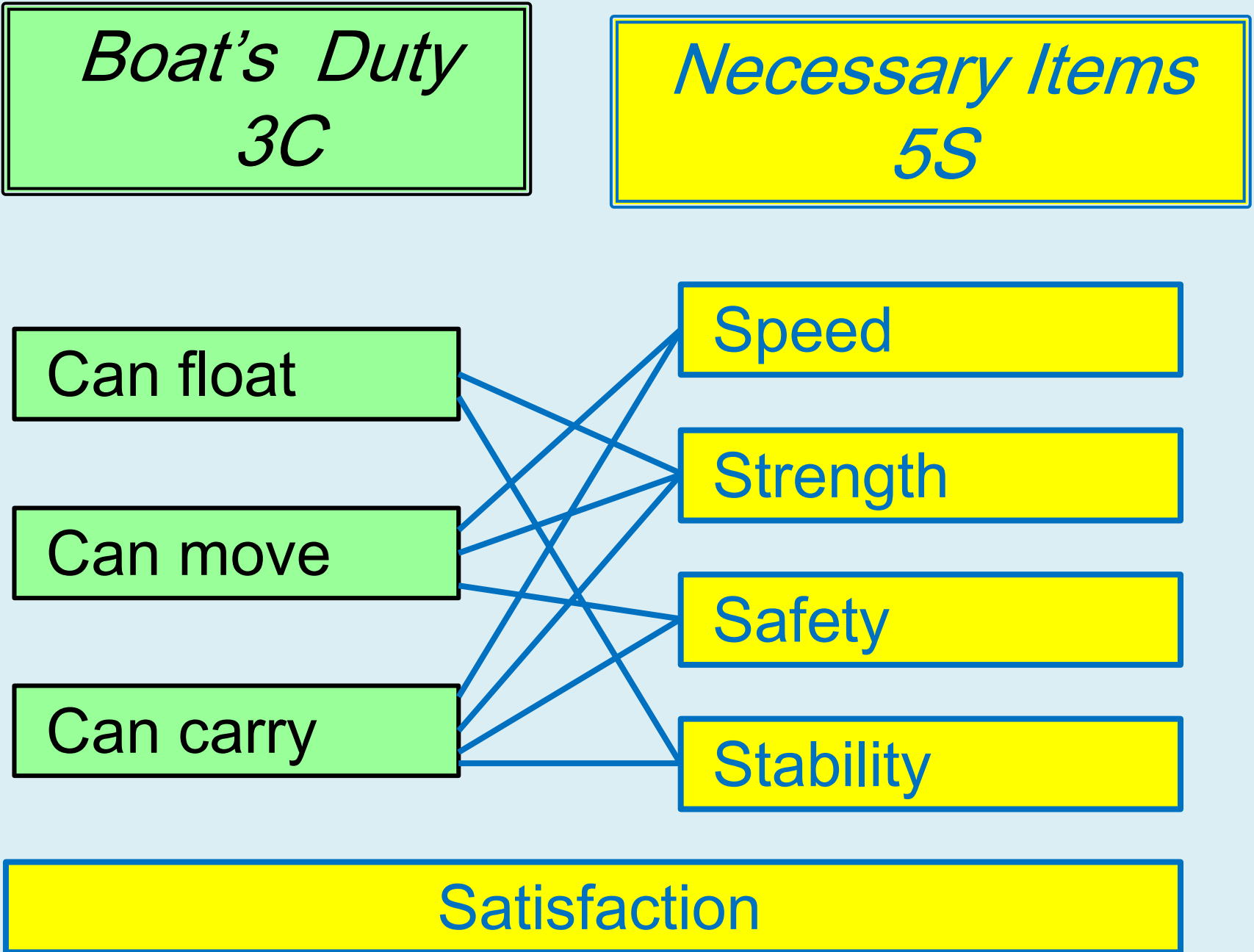
Speed

Strength

Safety

Stability

Satisfaction



Is this a boat ?

Speed

Safety

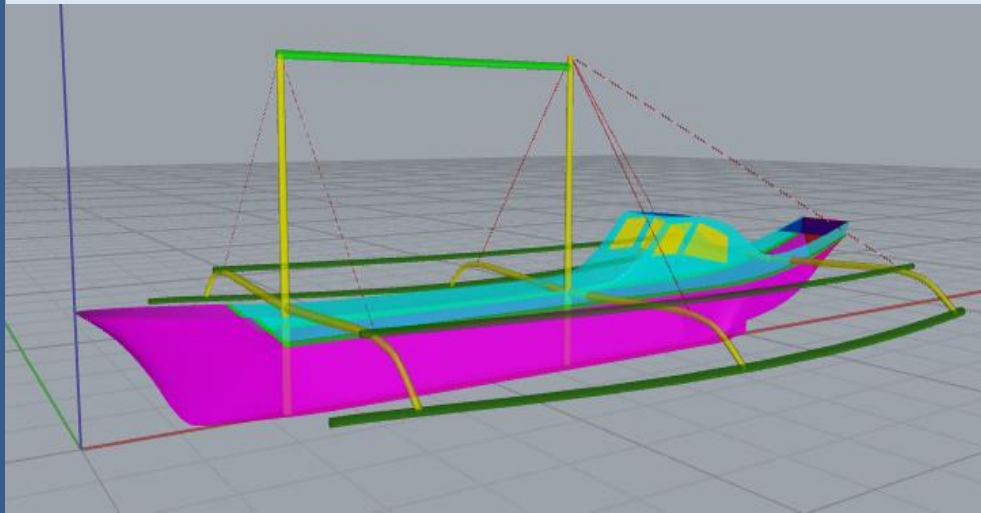
Strength

Stability

Satisfaction ···· ?

Yes ! She has 5S

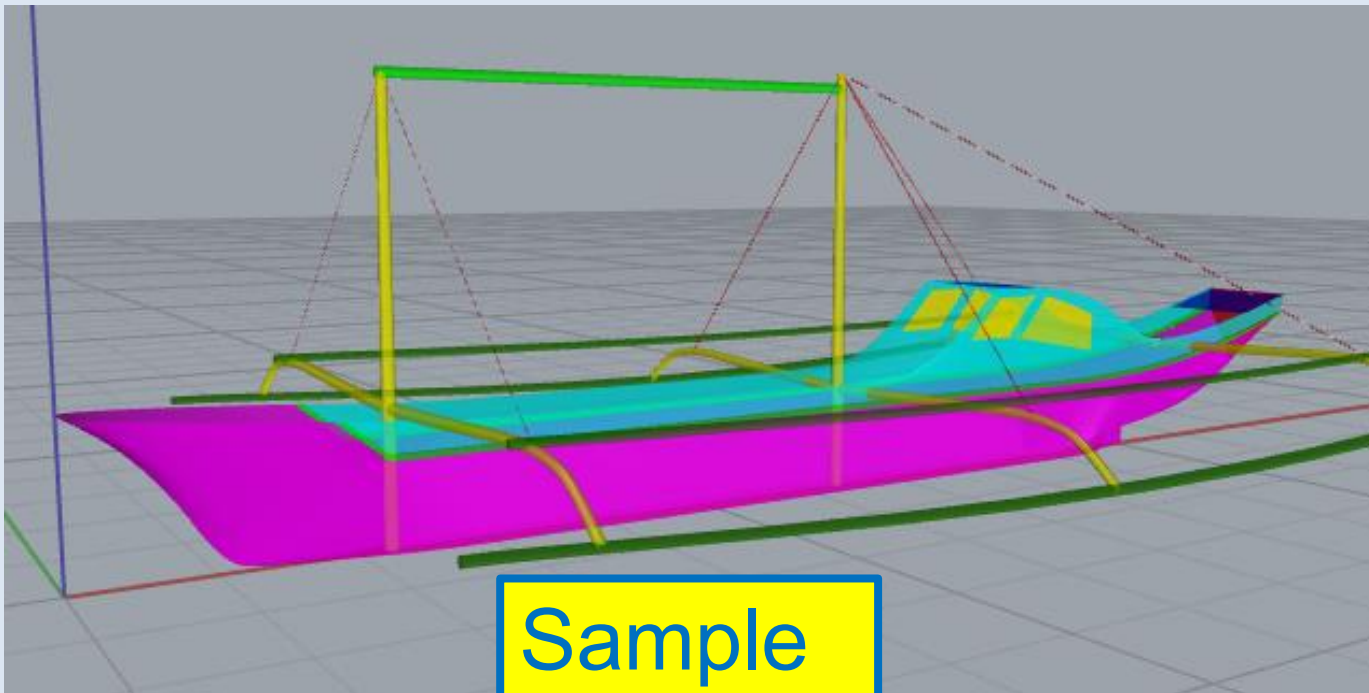
BASIC DESIGN FOR FISHING BANCA BELOW 3GT



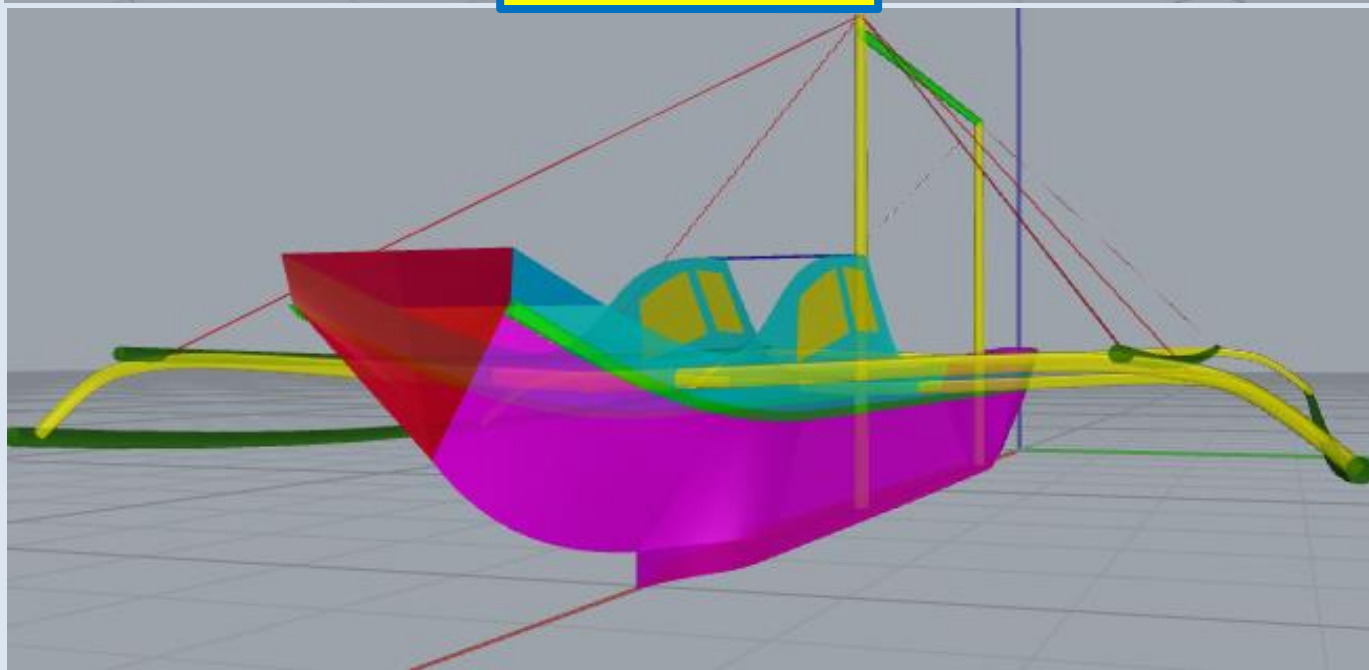
This is a **BASIC** design of a fishing Banca operating in municipal waters below 3 GT. It is wooden hulled build, sheathed with marine plywood, frames usually of lawaan lumber while the outrigger arms and floaters are mostly of bamboo material. This typical motorized Banca can be powered by engine up to a maximum of 25 horsepower .

Furthermore, this type of motor Banca can be built also using composite materials like fiber glass(FRP) or sandwich methods (wood with laminated FRP)

Note : MARINA provide the RULES for construction of wooden hulled boats with outriggers under MC 2011-01-02.



Sample



Other sample for Municipal motor boat below 3 GT



fiber glass (FRP) motor boat



wooden boat



aluminum boat

note:

MARINA will provide soon the Rules for Construction of Fiberglass-reinforced plastics (FRP) for small craft in the Philippines

2.0

❖ MARINA does not have specific design for Municipal fishing Banca /motor boat below three(3) gross tonnage. However, a maximum tonnage length, tonnage beam and tonnage depth are articulately combined provided that it shall not exceed three(3) gross tonnage thru the computation of the given empirical formula in the following tables:

Motor Banca

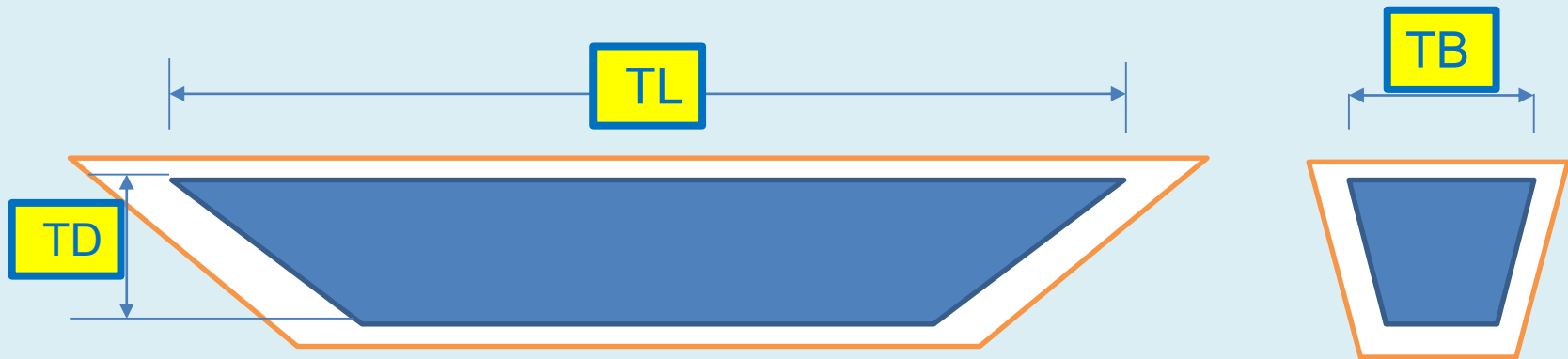
dimension	m	m
TL	11.99	12.5
TB	1.1	1.05
TD	0.9	0.85

Motor boat

dimension	m	m
TL	5.79	5.48
TB	2.1	2.28
TD	0.95	0.9

❖ The Maritime Industry Authority (MARINA), - as the Flag Administration,
- section 12(e) of Executive Order No. 125, as amended;
and R. A. 9295 and its implementing rules and regulations,
as amended (to undertake the safety regulatory functions
pertaining to ship construction and operation).

CALCULATION



$$GT = \frac{TL \times TB \times TD \times 0.7}{2.83}$$

$$GT = \frac{11.99 \times 1.1 \times 0.9 \times 0.7}{2.83}$$

$$GT = 2.936$$

Motor Banca

dimension	m	m
TL	11.99	12.5
TB	1.1	1.05
TD	0.9	0.85

3.0

3.0 BOAT REGISTRATION OF MUNICIPAL FISHING BOAT/BANCA BELOW 3 GT

- ❖ MARINA MC 172 provides the permanent implementation of pro-poor reduced vessel fees including simplified requirements and procedure for registration as follows:
 - Fishing boat/Banca below three(3) gross tonnage to cover the issuance of:
 1. Barangay certification - to certify that they owned the boat including boat details.
 2. Vessel name clearance- to provide three (3) proposed name of the boat .
 3. 2x2 picture of the owner
 4. Valid I.D of the owner and profile view of the boat (5x7)
 5. Admeasurement to be conducted

Finally, EO 305 provides for the guidelines in the devolution of registration of fishing vessels below 3 GT to the local government. The list of vessels registered by LGUs will be submitted regularly to MARINA Regional Office. LGU technical staff will be provided with trainings from MARINA to implement the executive order. MARINA will still continue to exercise visitorial functions to monitor compliance with the provisions of revised PMMRR, or other existing laws and Rules & Regulation on maritime safety.

In cases where the LGU does not yet implement EO 305, MARINA will continue to register fishing bancas below 3 GT.



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Thank you !!!

