

BAB VI

SPESIFIKASI KAPAL RANCANGAN

Dari hasil perancangan kapal penangkap ikan tipe *long line* 185 GT untuk daerah operasi penangkapan ikan di Samudera Hindia didapatkan spesifikasi kapal rancangan sebagai berikut :

1. Ukuran Utama (*Main Dimensions*)

- *Lenght overall (Loa)* : 27.3 m
- *Lenght of perpandicular (Lpp)* : 26 m
- *Breadth (B)* : 7.8 m
- *Depth (H)* : 3.7 m
- *Draft (T)* : 3.1 m
- *Block coefficient (Cb)* : 0.548
- *Displacement (Δ)* : 334.591 ton
- *Light weight tonnage (LWT)* : 176.056 ton
- *Dead weight tonnage (DWT)* : 158.535 ton
- *Gross Tonnage (GT)* : 185
- *Net Tonnage (NT)* : 57.36
- *Maximum Speed* : 10 knot

2. Sistem Propulsi

Main engine

- *Merk* : Yanmar
- *Power* : 500 HP
- *Rated speed* : 1950 rpm

Propeller

- *Diameter* : 1.48 m
- *Expanded area ratio(A_e/A_o)* : 0.500
- *Number of blade* : 3

3. Rencana Umum

a. Kru kapal (*Crew*)

- *Captain* : 1 person
- *Chief Engineer* : 1 person
- *2nd Engineer* : 1 person
- *Mate* : 1 person
- *Radio Officer* : 1 person
- *Bosun* : 1 person
- *Cook* : 1 person
- *Fisherman* : 6 persons

b. Sistem Jangkar (*Anchoring System*)

Anchor

- *Number* : 2 unit
- *Weight* : 390 kg

Stud link chain cables

- *Lenght* : 275 m
- *Diameter* : 17.5 mm

Mooring ropes

- *Number* : 2 unit
- *Lenght* : 220 m
- *Breaking load* : 57.5 kN

Windlass

- *Max. Pull* : 3600 kg
- *Haulage speed* : 14 m/min
- *Motor power* : 7500W – 1100W

Others

- *Bollard* : 9 unit
- *Panama chock* : 4 unit
- *Dimension of Chain locker* : 1 m x 1 m x 2.5 m

c. Peralatan bongkar muat dan penyimpanan (*Unloading and Refrigeration*)

Deck crane

- *Merk* : Bob lift
- *Max. Lifting Capacity* : 5 ton
- *Rotation angle* : 360°

Flake ice machine

- *Merk* : Linsky
- *Daily capacity* : 3000 kg/day

d. *Peralatan keselamatan (Safety Equipment)*

- *Liferaft @ 16 persons (throw overboard)* : 2 unit
- *Liferaft cradle* : 2 unit
- *Lifebouy* : 8 unit
- *Life jacket* : 13 unit
- *Immersion suit* : 13 unit
- *Bouyant smoke signal* : 5 unit
- *Parachute flare* : 10 unit
- *Red hand flare* : 10 unit
- *Apar* : 5 unit

e. *Peralatan Tangkap Ikan (Fishing Gear)*

- *Line hauler* : Twin 40 x 80
- *Main line* : Ø 3.0 mm
- *Monofilament-nylon branch line* : Ø 1.80 mm
- *Line Thrower* : 600 m/min
- *Branch Line Ace* :
- *Side Roller* : 0.5 lb
- *Tuna Hook* :
- *Snap With Swievels* :
- *Floats* : 4 pcs
- *Radio Buoy* : 2 pcs
- *Hand Hook* : 6 pcs

- *Branch Line Basket* : 2 pcs
- *Container Box* : 10 pcs
- *Ice scoop 6-1/8" x 14-3/4"* : 5 pcs
- *Cold Resistant Gloves* : 13 pcs
- *Container box 61 cm x 43 cm x 35 cm* : 20 pcs
- *Fisherman jacket* : 13 pcs

f. Peralatan Navigasi dan Komunikasi

- *Search light* : 1 unit
- *Navigation light* : 6 unit
- *Magnetic compass* : 1 unit
- *Radar* : 1 unit
- *Radar* : 1 unit
- *GPS navigator* : 1 unit
- *Echo sounder* : 1 unit
- *Colour Fish Finder* : 1 unit
- *VHF radio telephone* : 1 unit
- *SSB radio telephone* : 1 unit
- *Navtex* : 1 unit
- *Ais system* : 1 unit
- *Anchor light* : 1 unit
- *Anchor blackball* : 1 unit

g. Kapasitas Tangki (*Tank Capacities*)

- *Fuel oil* : 18.136 m³
- *Fresh water (service)* : 20.22 m³
- *Fresh water (ice)* : 26.34 m³
- *Lubricating oil* : 0.574 m³
- *Bilge water* : 2.0 m³
- *Dirty oil* : 0.166 m³
- *Sewage* : 1.56 m³
- *Fish hold* : 150.078 m³