

## **BAB VI**

### **PENUTUP**

Dari hasil pengerjaan perancangan kapal Kontainer 220 Teus untuk daerah pelayaran Tanjung Priok-Belawan didapatkan spesifikasi kapal rancangan sebagai berikut :

- Ukuran Utama (Main Dimensions)

- Length overall (Loa)	: 103,97 m
- Length of perpendicular (Lpp)	: 98 m
- Breadth (B)	: 17 m
- Depth (H)	: 8,07 m
- Draft (T)	: 6,31 m
- Block coefficient (Cb)	: 0.778
- Midship coefficient (Cm)	: 0.989
- Waterline coefficient (Cw)	: 0.856
- Prismatic coefficient (Cp)	: 0.786
- Displacement ( $\Delta$ )	: 9434.653 ton
- Light weight tonnage (LWT)	: 2733.31 ton
- Dead weight tonnage (DWT)	: 6701.34 ton
- Payload	: 220 teus
- Maximum Speed	: 12 knot

- Kapasitas Tangki (Tank Capacities)

- Fuel oil	: 254.345 m <sup>3</sup>
- Fresh water (service)	: 181.436 m <sup>3</sup>
- Lubricating oil	: 16.192 m <sup>3</sup>
- Dirty oil	: 16.192 m <sup>3</sup>

- Permesinan (Machinery)

- Main engine	
Merk	: Caterpillar
Power	: 5440 mHP

Rated speed	: 600 rpm
- Gearbox	
Merk	: ZF
Ratio	: 5.044
Max. Input RPM	: 600 rpm
- Propeller	
Diameter	: 4.82 m
Expanded area ratio(Ae/Ao)	: 0.600
Number of blade	: 5
- Generator sets	
Merk	: Caterpillar
Max. Input power	: 3 x 300 ekW
- Steering gear	
Merk	: Data
Max. Torque	: 33750 daN.m
Rudder angle	: 35°
El. Motor power	: 2 x 18.5 kW
● Sistem Jangkar (Anchoring System)	
- Anchor	
Number	: 2 unit
Weight	: 3540 kg
- Stud link chain cables	
Lenght	: 495 m
Diameter	: 50 mm
- Mooring ropes	
Number	: 4 unit
Lenght	: 180 m
Breaking load	: 250 kN
- Windlass	
Brake holding	: 450 kN
Weight	: 11.5 ton

- |  |                      |
|--|----------------------|
| Motor power  | : 75 kW              |
| - Others   |                      |
| Bollard  | : 9 unit             |
| Panama chock   | : 4 unit             |
| Dimension of Chain locker  | : 1 m x 1 m x 2.5 m  |
| ● Peralatan keselamatan (Safety Equipment)                       |                      |
| - Rescue boat @38 persons  | : 1 unit             |
| - Liferaft @20 persons (throw overboard)                         | : 2 unit             |
| - Liferaft cradle  | : 2 unit             |
| - Lifebouy   | : 12 unit            |
| - Life jacket  | : 37 unit            |
| - Immersion suit   | : 37 unit            |
| - Bouyant smoke signal   | : 10 unit            |
| - Parachute flare  | : 10 unit            |
| - Red hand flare   | : 10 unit            |
| - Apar   | : 12 unit            |
| ● Peralatan Navigasi dan Komunikasi (Nautical and Communication) |                      |
| - Search light   | : Seematz, 250W      |
| - Navigation light   | : DHR                |
| - Horn   | : Geomar B-130 DB    |
| - Magnetic compass   | : Sperry Marine      |
| - Radar  | : JRC JMA-3336       |
| - Radar  | : JRC JMA-5212-4 Mk2 |
| - GPS navigator  | : Furuno GP-32       |
| - Echo sounder   | : JRC JFC-7050       |
| - VHF radio telephone  | : COBHAM-SAILOR 6222 |
| - SSB radio telephone  | : JRC JSS-2150       |
| - Navtex   | : Furuno NX-700A     |
| - Ais system   | : Furuno FA-150      |
| - Anchor light   | : -                  |
| - Anchor blackball   | : -                  |

● Kru kapal (Crew)

- Captain	: 1	person
- Chief Engineer	: 1	person
- <i>1<sup>st</sup> Officer</i>	: 1	person
- <i>2<sup>nd</sup> Officer</i>	: 1	person
- <i>1<sup>st</sup> Engineer</i>	: 1	person
- <i>2nd Engineer</i>	: 1	person
- <i>Doctor</i>	: 2	person
- <i>Boatswain</i>	: 1	person
- <i>Cadets</i>	: 2	person
- <i>Oiler</i>	: 3	person
- <i>Q.Master</i>	: 2	person
- <i>Sailor</i>	: 4	person
- <i>Radio Officer</i>	: 2	person
- <i>Electrician</i>	: 2	person
- <i>Wiper</i>	: 4	person
- <i>Fitter</i>	: 2	person
- <i>Cook</i>	: 6	person
Total	37	person