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## 2x New-Built 36.4m Trawler for Sale



### Listing ID - 4770

**Description** 2x New-Built 36.4m Trawler for Sale

**Date** 2024

**Launched**

**Length** 36.40m (119ft 5in)

**Beam** 7.60m (24ft 11in)

**Draft** 2.80m (9ft 2in)

**Note** Displacement: 430 tons

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**Price** USD 2.58million each

Both ships are built as steel, single deck fishing trawler with lengthen forecastle deck and stern engine room. The ship is equipped with a medium speed diesel engine which drives fixed pitch propeller (FPP) via a gear reducer. The fishing products to be installed into directly and refrigerated in the fish hold via the hold cover on the main deck.

LOA: 36.40m

LPP: 30.80m

Breadth: 7.60m

Depth: 3.80m

Draft: 2.80m

Displacement: 430 tons

### Engine

Main Engine

Type and Quantity: XCW6200ZC-10, one set

Manufactory: Weicai Power Co., Ltd, Weifang city, Shandong province Shandong, China

Rated Power / Speed: 810kW (1100 hp), 1000 r/min

Working Condition when ME services in unrestricted area:

Air temperature: 45°C

Sea water temperature: 32°C

Humidity: 60%

Propeller

Quantity: one set

Material: third class Ni-Al-Bronze

Type: FPP (process precision to be first class), 4 blades, with shrouding, diameter ~φ1800 (to be confirmed after calculation)

### **Speed, Fuel Oil Consumption Rate, Self-sustaining Ability and Towing Power**

Speed

In the condition of designed draught and ME reaching rated power, the speed shall not be less than 10.5 knots.

Testing condition: in the deep and calm sea, Beaufort Wind Scale not less than level 2, clean bilge. The designed speed can be calculated from the trial speed.

Fuel Oil Consumption Rate

The fuel oil consumption rate to be confirmed by the ME bench test, and the rate to be 198g/kW·h when ME power is 810kW and 100% speed is 1000rpm. Fuel oil consumption value to be 42.7kCal/kg.

Self-sustaining Ability

Self-sustaining ability to be 20 day and night (all-weather trawling status)

Towing Power

Anchoring towing power to be about 120kN in the condition of ME reached rated torsional moment. Trawling towing speed to be designed as 3.5 knots.

### **Tank Capacity (net capacity)**

Fish Hold ~150.00 m<sup>3</sup>

Fuel Oil ~78.00 m<sup>3</sup>

Fresh Water (incl. F.W. Generated) ~20.00 m<sup>3</sup>

Lub. Oil ~2.00 m<sup>3</sup>

Hydr. Oil ~2.50 m<sup>3</sup>

Sewage ~1.50 m<sup>3</sup>

### **Crew**

Crew to be 15 persons:

Captain: 1

Crew Ranked: 10

Common crew: 4

### **Flag, Class, Regulation and Certificates**

Flag

Flag to be Russia.

Class

Symbol: I, +HULL, +MACH, Fishing Vessel, Unrestricted Navigation

The ship to be constructed according to Design Plan numbered DSC808 agreed by both parties. The design to be finished in China and submitted to BV Class for approval. The ship to be surveyed and inspected by BV class and to obtain the Initial Survey Certificate.

## Rules and Regulations

### Rules

The ship shall comply with following requirements of the rules upon the date that the Contract enters into force: BV Class Rules and Regulations for the Construction and Classification of Sea-Going Steel Ships, 2001 with relevant Amendment, and shall be approved by class.

If there are any modification or revision of above mentioned rules and regulations after the Contract is signed, Party B shall notify Party A in written form or fax. Party A shall revert their final decision in written form to Party B.

### Regulation

The necessary procedures such as obtaining the inspection certificate issued by Russian Maritime Register of Shipping (RS), passing the examination by relevant Russian department of Quarantine of Sanitation and satisfying the requirements for Russian labor Protection, to be finished by Buyer independently with the assistance from Builder. The technical requirements from above mentioned regulatory authority to be provided by Buyer and to be accomplished by Builder.

Application for RS Class shall be carried out by Buyer independently after the ship's delivery.

## Certificates

Certificates issued by BV:

Safety Certificate

International Oil Pollution Prevention (IOPP) Certificate

Load Line Certificate

International Fishing Vessel Exemption Certificate

Sewage Pollution Prevention Certificate (comply with Class' requirement)

### Other Certificates:

Builder's Certificate issued by the Builder

Compass Adjustment and Radar Debugging Certificate issued by the Builder

Deratization Exemption Certificate issued by Department of Hygienic Analysis and Detection

The Buyer shall pay the costs related to the registration of Ship. All other fees related to necessary for classification, inspection, measurement and certificates of ship to be covered by the Builder. Should the formal certificate(s) not be obtained at the time of the Vessel's delivery, the Builder shall furnish the Buyer with the provisional certificate(s) as the proof for obtaining the formal certificate(s).

## Navigation Area and Stability

Navigation area to be unrestricted area. Ice strengthening for hull structure equal to  $\pi y3$  of RS class. Operation area to be all Far East sea area. The ship to be operated unrestricted all the year.

Stability of the ship shall in accordance with the stability requirement which IMO required for international ship navigated in unrestricted area, and the influence of hull structure icing to be considered.

## Freeboard

The statutory freeboard shall be not less than the requirement for B type vessel specified in The International Load Line Convention, 1966.

Freeboard mark made of 6mm thick steel plate shall be welded on the height which correspondent to summer freeboard.

### **Drawings**

During the earlier period of construction, Builder shall provide following drawings to Buyer for approval:

Hull Part:

- 1) General Arrangement Plan
- 2) Specification for Hull Part
- 3) Line Plan
- 4) Tank Plan
- 5) Hydrostatic Calculation
- 6) Primary trim and stability calculation booklet
- 7) Construction Profile & Deck Plan
- 8) Midship Section Plan

Machinery Part:

- 1) Specification for Machinery Part
- 2) Engine Room Arrangement Plan
- 3) Order List of Machinery Equipment

Electric Part:

- 1) Specification for Electric Part
- 2) Calculation of Power Load
- 3) Order List of Electric Equipment

All Certificates and Nameplates shall use language both in Chinese\English (except the Certificates only provided in Chinese according to the convention of manufactory) and the internation system (SI).

Following finished drawings to be arranged on board in the glass wooden frame:

General Arrangement Plan  
Tank Plan and Load Line Mark  
Fire-fighting Arrangement  
Life-saving Arrangement

Each ship to be provided three (3) sets Specification delivered by manufactories of main engine, auxiliary engine and other main equipment (e.g. Generator, pumps, Nav. & Com. Equipment etc.). One set to be delivered to Buyer, and other two sets to be arranged on board.

### **Materials and Equipment**

All materials and equipment to be used on board to be new and good product quality. Materials, outfitting, equipment and spare parts of machinery and electric equipment to be selected in accordance with Contract, Specification, Regulation and Rules etc..

Party A has option right for purchasing equipment and outfitting based on the Maker List unless there are other descriptions in the Contract and Specification or other agreement between both Parties. If required, Party B can participate in the process for approval of technical agreements concerning main equipment.

If the Buyer required materials and equipment to be procured through tender, Party A must respect to the results of tender.

Party A can select the makers not mentioned in the Maker List subject to the mutual agreements reached between Party A and the Buyer.

Materials and equipment not covered in the Specification and/or Maker List to be decided by Party A.

ISO and Chinese standards (GB, CB etc.) to be used.

Some materials and equipment described in the Specification can't be acquired under some situation, the equivalent ones can be adopted subject to Buyer's approval.

### **Structure and Technics**

The ship to be built in accordance with the better convention of construction, and to comply with the requirements of BV class and Buyer. Following standards to be used for construction:

CB

SC

GB

Technics documentation (to be provided to Buyer by Builder after plate-cutting accordingly).

### **Buyer (Owner)'s Supplies**

Unless the Specification specified definitely, following supplies to be provided by Buyer (Owner):

- 1) Any art decoration
- 2) All tubes and pneumatic tools beyond the scope of the Specification
- 3) All mooring equipment beyond the scope of the Specification
- 4) All spares, stores and equipment beyond the scope of the Specification and Class
- 5) Food (except the provisions stored in life raft) and spare paint
- 6) All material medica and medical equipment (except the provisions stored in life raft)
- 7) All navigation equipment beyond the requirements of relevant authorities and /or the Specification
- 8) All flags except one set of international code flags
- 9) All library on board
- 10) All navigation books and chart (incl. the one used for life raft)
- 11) All broadcasting stations except required ones
- 12) All radiogram and stereo devices etc.
- 13) Typewriter and other office equipment
- 14) All consumption for the ship and life raft

Party A shall receive, store and install the Buyer's supplies. The Buyer shall provide to Builder above mentioned supplies and instructions for installation asap for drawing preparation.

### **Inspection**

Buyer (Owner)'s representative has the right to survey the hull and inspect the equipment of machinery & electric at any time in the shipyard and sub-contract manufactory during the period of Contract.

Inspection items to be provided to Buyer's representative for approval.

### **Inclining Test**

During the period of construction if finishing, inclining test and no-load displacement test should be processed in the presence of the representative of Class and Buyer, and the results to be recorded into the finished trim and stability calculation booklet.

### **Trial Trip**

Trial trip to be processed according to the current test and trial program and the international shipbuilding construction conventions before the delivery of the Ship. The representative of Buyer, Builder and Class shall be present at the trial. 30 days before the trial, Party B should deliver the trial program to Party A and Class for approval.

The floating state during the trial trip to be approved by Buyer.

ME continuously running not less than 4 hours at 810kW

Torsional vibration measuration

Speed measure (among surveyor's post) when ME power to be 100% rated power

Steering gear test and Retracting Anchor test

Verify the performance of the ship and machinery equipment

Results of the trial trip shall be delivered to Buyer (Owner) and Class

The mistakes not following the requirements of Specification and Drawings, which to be found by Buyer (Owner)'s representative, supervisor of Class or relevant authorities shall be corrected by Builder within required period.

### **Delivery Status**

Before the delivery, all liquid tanks fish hold, engine room, accommodation, bilge well, public area and other place shall be clean without damage. The surface of the paint shall be trimmed and keep clean. All working medium for equipment (e.g. Lube Oil, Hydr. Oil, Freon and Heat-transferred Oil etc.) shall be added to normal level (except fuel oil in all kinds of tank). All supplies and spares shall be fixed or colligated as required.

### **Spares and Tools**

Spares and tools shall be equipped with according to the requirements of Class, and shall be protected properly from corrosion and stored in certain box or placed on certain shelf on board.

The smaller spares shall be stored in steel box or in the drawer of the shelf as far as possible.

Additional spares provided by Buyer (Owner) shall be stored, handled and arranged on board by Builder.

### **Hull Structure and Material**

Steel Hull, Lengthen Forecastle Deck, Deck House

General

The Ship to be arranged with continues single deck from aft to fore, transvers frame, and to be electric welded.

Foreship and after ship to be constructed in blocks.

Dimensions and materials of any structure members shall comply with the requirements of Class. Carbon steels used in main hull structure, length forecastle deck and /or deckhouse shall be approved by Class. Forging and casting shall be highly qualified and approved by Class.

The structure and arrangement of the Ship shall be designed for easy to entrance and convenient for maintenance in the future. The basic design of the structure shall ensure the structure members keep continuous.

Material

All structure material, main steel plate and strong structure members (incl. assembled profiles) under main deck to be B class steel. Inner profile members and forecastle to be A class steel, and secondary members to be Q235-A.

Welding

Welding to be processed according to the welding procedure approved by Class and convention.

Welding rod to satisfy the requirements of Class.

The jointing practiced by automatic submerged arc welding, manual welding and other methods to be approved by Class.

All hull structure to be connected by welding.

Continuous welding to be used for: the inbuilt steel plate in water tank, moist room, bathroom and toilet; and other places required by Class e.g. bulkhead in galley and meal checking room, chain locker, steering gear room and the important structure members exposed in open air etc.. Other places to be intermittent welding as per the standards and regulation of Party B.

The preparation work for welding seem to be carried out carefully. All dirty materials (e.g. water, corrosion, oil, molten slag, dust and paint etc.) damaged to welding shall be cleaned out before welding.

All welding work shall be performed according to "Vessel Welding Regulation" (drawing no. DSC808-190-01) and welding technics documentation. Fillet welding to be coated in sectoral openings. In the condition that the structure member penetrate the borderline of the liquid tank which may lead to bad leakage for adjacent liquid tanks, one

suitable sectoral hole shall be cut in the outside of the liquid tank where the structure member closed to and be coated with fillet welding.

Following parts shall be welded in low hydrogen alkalescency welding rod:

Stempost and sternpost

Block fabrication joint

All kinds of derrick mast

Boom

Equipment foundation to bear large force (e.g. main engine, auxiliary engine and anchor gear etc.)

Eye bracket of fishing gear and lifting appliances etc.

#### Inspection

Nondestructive Examination (NDE) shall be applied to all important welding seams according to requirements of Class and Standards of Party B.

Before launching, tightness test shall be carried out for the liquid tank with compressed air or watering etc. according to the requirement of Class. The test shall be processed in the present of Buyer (Owner)'s representative and Surveyor. Stencil test or compressed air test shall be applied to other tanks/cabins.

Tightness test for windows, doors and hatch covers to be performed by means of spraying.

#### Deck Camber

Deck camber to be great circle arc type and the height of camber to be 0.152m.

#### Lightening Hole and Manhole

For all non-water-tight structure members, proper manhole, lightening hole, air hole and drainage hole can be arranged in where the holes are needed and the cut have no influence to structure strength. The edge of above holes shall be smooth.

#### Bottom Structure

##### Bottom Plug

A Ø30mm copper bottom plug or drain plug which manufactured according to GB standard shall be arranged in the lowest point of each liquid tank bottom. Bottom plug shall not be arranged in oil tank. Cement to be daubed outside of the bottom plugs. Twos plug spanners t be provided.

##### Double Bottom

Double bottom with the height of 0.9m to the keel to be arranged from fish hold (FR22~FR45). Partial double bottom with the height of 1.2m to the keel to be arranged in ER area. In DB of fish hold area, the inner bottom plate to be 8mm thick, and the rib to be not less than 6mm thick. In addition, the rib towards stern in FR6 to be not less than 10mm thick.

#### Frame Spacing

All frame space to be 550mm.

#### Bottom Structure in E/R area

E/R to be arranged aft. The middle of the foreside part of E/R bottom to be foundation of M/E and both sides to be double bottom. The aft side part to be transverse frame of single bottom. The shell plate of single bottom of E/R shall not less than 9mm thick. The bilge of both sides of M/E foundation to be covered by cement.

#### Side Structure

##### Side Shell Plate

The shell plate located in the outlet of anchor shall be strengthened. Necessary eye brackets for installing propeller and rudder shall be arranged at stern. The side shell plate of forecastle to be ~7mm thick.

## Side Frame

Transverse frame to be used.

From FR1 to stem, one side longitudinal girder to be arranged between main deck and bilge.

25x50 half-round bars to be arranged along the exterior margin of main deck sideline from stern to stem frame.

## Bulkhead

Longitudinal bulkhead tube arranged for deep oil tank. Details refer to Construction Profile & Deck Plan (drawing no. DSC808 -110-02). FR6 transverse bulkhead lower strake to be 12mm thick. E/R former bulkhead to be FR22, and upper bulkhead to be 7mm thick, lower bulkhead to be 6mm thick and all stiffeners to be L75×50×6 mm.

## Deck Structure

### Height between Decks

Main deck to forecastle deck: 2.20m

Main deck to Engine room casting: 2.20m

Forecastle deck to compass deck: 2.20m

Bilge heighten: 0.35m

## Main Deck Structure

Deck structure in where equipment to be installed shall be strengthened properly. In the transition region from main deck to forecastle deck, main deck side plate to be 8mm thick. In the middle 0.4L area, main deck side plate to be 7mm thick and to be not less than 600mm width.

## Engine Room Casting

E/R casting arrangement refers to General Arrangement Plan. Stiffener to be arranged in the inside of E/R casting.

## Foundation

According to the recommendation of manufactory and the requirements of regulation and standards, M/E foundation shall be carefully calculated to enable the welded structure bear sufficient intension and rigidity. Alkaline welding rod shall be used.

The foundation for shaft bearing, A/E and pump shall have enough intension with the constructure easy to drain and clean.

## Fore and Aft Structure

Sternpost to be cast steel. Stempost to be cast steel or welded-steel plate construction.

## Forepeak Tank Structure

A rope tank to be arranged in the forepeak tank under the anchor gear.

## Afterpeak Tank Structure

There are enough space between stern frame and propeller. The shape of stern frame shall be designed to enable produce fairing stream.

Deep solid floor connected to sternpost shall be arranged according to the requirements of regulation.

The inner wall of guide duct structure shall be the whole plate. The inner wall and outer wall are all B class plate.

Anti-collision stiffener with space of ~400mm to be arranged for stern blanking plate.

Fillet to be half-round bar with size of 25x50mm.

## Deckhouse and Forecastle

### Forecastle



Light bulkhead inside the hull and forecastle to be made of channel steel with thickness of 4mm. The type to be Q235-A

Following space shall be sound insulated by plate in accordance with relevant regulation:

Wheelhouse

Galley, Laundry room and toilet

Engine room

Main ladder and corridor

Storehouse

Deckhouse

Bottom of the former trunk bulkhead of the deckhouse located in weather deck shall be thickened at least 300mm height above the deck. The plate thickness shall plus 1mm based on the calculation value of upper strake (not bigger than deck thickness).

Funnel

E/R casting with goalpost mast and funnel to be arranged deck aft (approximately between FR10 and FR15). Bottom of the fore end wall, aft end wall and inner wall shall be thickened at least 300mm height above the deck. The plate thickness shall plus 1mm based on the calculation value of upper strake (not bigger than deck thickness). Size of rib to be L63x40x5mm.

Appendage

Bilge Keel

Bilge keel located on both side (starboard and portside) to be composed of flat steel round steel and thick flat, and welded to base plate of bilge shell plate. The height, length and the location of bilge keel refer to drawings. The both side to be arrow-head strengthened.

Bulwark

Bulwark arrangement refers to GAP. Bulwark on main deck to be 1.0m high.

Strengthening to be considered if the bulwark to be opened or installed fairlead/chock etc.

Box Keel

Inner the box keel, there are cast-iron solid ballast to be arranged, cement to be concreted, and the keel to be welded by plate, which can ensure the stability and prevent the hull from grounding and rolling.

Floor Bracket of Engine Room and Steering Gear Room

The floor deck in engine room and steering engine room to be made of 5mm checkered plate which installed on detachable floor bracket.

## **Anticorrosion**

Paint

Paint manufactured by Jotun or International to be adopted. Period of use to be two (2) years (due to their need period of time from launching to delivery).

Paint type, brand no., color, coating layer, thickness of dry film of paint layer and painting area etc. to be confirmed in accordance with the drawing approved by Buyer named Paint Specification (drawing no. )

Generally, epoxy primer and tin-free self-polishing anti-fouling finish paint to be used for hull below waterline. Epoxy primer to be used for hull above waterline and outside of deckhouse. Alkyd pain to be used for inside of hull. Epoxy water tank paint to be used for fresh water tank. Oil tank to be not painted. Details refer to the quotation from paint manufactory.

All plates, profiles and plates for outfitting foundation of hull structure which need to be painted, shall be shot blasted to the degree near SSPC-SP10 or Sa2 ½ Sweden Standard SIS05 59 00, or derusted using dynamic tools to

the standard of Pt3 JSRA SPSS 1975 and above, and painted with abio-zinc silicate shop primer.  
Painting construction to be performed according to the paint manufacture's recommendation.  
Dry film thickness inspection shall be performed for all paints finished.

#### Paint Color

For the convenience of draw out Paint Specification (drawing no. ), the paint color to be recommended as followings:

Void tank: White

Hull below waterline: Red

Waterline mark (100mm width, lower edge to be design draught, upper edge to be scantling draught): Green

Hull from above of waterline to main deck: Marine blue

Forecastle outside and inside above main deck: White

Deck machinery: Grey

Mast, pole, railing, handrail: White

Weather deck: Grass green

Inner deck: Grass green

#### Inner trunk bulkhead

From floor to height of 800mm: Grass green

Above height of 800mm: White

#### Anodic Protection

Proper quantities of 3-element zinc anode shall be arranged for stern, bilge keel, rudder, dome and bottom of hull.  
Zinc anode to be welded and fixed on shell plate, and bolted connected to bilge keel. Zinc anode to be designed as standards.

#### Oil Tank Treatment

All inner face of oil tank shall be painted with waste L.O. after dedusting.

#### Wooden Deck and Deck Paint (HOLD, to be consulted with Buyer)

In the exposed part of the main deck, fishing gear and lifting area to be covered abrasion proof deck cover or wood floor.

### Outfitting

#### The Rudder Device

The ship to be equipped with one streamline balanced rudder, and one hydraulic swing cylinder type steering gear with capacity of 2.5t/m which used for steering rudder. The rudder angle shall finish moving within 28 seconds from one side 35° to the other side 30° when the ship is at full forward speed.

Steering gear can be remote controlled from the wheelhouse control console. In addition the gear can be auxiliary manually operated to get the rudder angle can be steered within 60 seconds from one side 15° to the other side 15° when the ship is at forward speed of 7 knots. Auto-steering gear matched with gyrocompass to be arranged in wheelhouse control console. Electric rudder angle indicator to be arranged in steering gear room.

#### Anchoring Equipment

The ship to install 2 hall anchors with weight 480kg each; anchor chain diameter is 19mm, class AM2; total quantity is 10 sections (length 27.5m each) which will be stored in anchor locker. Auger-type abandoned anchor device to be arranged in anchor locker.

Bilge well to be arranged in anchor locker. Anchor chain to reach windlass from anchor hawse via deck roller.  
Drainage from the bilge well located in anchor locker to be carried

out by manual pump.

During the ship is harboring and sailing, the anchor shall be fixed by lever chain stopper.

Electric-driven windlass to be installed on the deck for heave away/in anchor. Windlass has two rollers and the hoisting speed satisfy the requirement of BV. Seawater flushing system for anchor chain shall be arranged in order to flush anchor and chains.

#### Mooring Equipment

Necessary quantities of double bitt bollard, chock, roller, fairlead and 8 fenders (4 types each side) to be arranged for mooring purpose.

In the fore ship, the roller of electric-windlass to be used for mooring operation.

In the aft ship, the roller of derrick winch to be used for mooring operation. The electric derrick winch to be arranged on the port side aft of the main deck. Lifting capacity is 3t×15m/min.

#### Cargo Handling Gear

Cargo handling gear to be supplied. Two (2) fore booms to be installed on the door shelf (#32 and one (1) aft boom to be arranged on the half door shelf (#11).

Two fore booms to be used for lifting operation on the main deck. Boom length is 6m each. Lifting capacity is 2kN/(2t). Length reached outside of board is 3m. Booms to be fastened on the deck stanchions during the sailing condition.

Aft half door shelf to be arranged on portside. Lifting capacity is 3t (2sets). One boom to be installed on the back of one half door shelf with length of approximate 6m and capacity of 3t, which to be used for hanging dynamic tackle.

Eye bracket with necessary strength shall be arranged for fastening the parts of booms.

Half door shelf to be equipped with two 2t tackles with spacing of 300mm. Upside of the half door shelf to be inclined 750mm toward midship.

Two (2) sets cargo winch (each fore boom to be equipped with one winch) and one (1) dynamic tackle.

Rated pulling force of fore boom roller: 20kN (2.0t); 40m/min

Lifting capacity of boom: 2t

Hoisting speed of two winches: 18m/min

Chain locker to be provided for fastening the booms when there are no cargo.

#### Life-Saving Equipment

The ship to be equipped with 4 self-inflating life rafts which satisfied the requirement of SLOAS, 6 life buoys and 15 survival suits.

When the period of sailing, life rafts to be stored on compass deck and two to be arranged each side. The rafts to be equipped with hydr-driven fasten facility and can float

independently. 2 storm ladders to be arranged for people reaching the life rafts.

All life rafts, life buoys and survival suits shall be marked with ship name and registered port (both in Chinese and English).

#### Life buoys

6 life buoys to be supplied. 2 fitted with buoyant life line of  $\phi 8 \times 30$ m each (one each side), and 3 fitted with self-igniting light. Four to be stored in wheelhouse each side and two to be stored on aft door shelf.

#### Life Jackets

Life jackets to be supplied (3 for on duty). Ten (10) additional working life jackets to be delivered.

#### Life Line-Throwing Appliance

1 set life line-throwing appliance to be delivered.

#### Life Signals

2 orange smoke signals and 12 red flare parachute signal to be stored in wheelhouse.

#### Fire Fighting Equipment

The ship to be equipped with fire-fighting system, CO2 extinguish system as well as portable Fire extinguisher. All firefighting and extinguishing equipment to be approved by class.

#### Fixed fire-fighting equipment

Water fi-fi system to be arranged. A fire pump to be installed in E/R. Necessary copper fire hydrant, fire box, fire hose and fire nozzles (water column/ water mist) etc. to be delivered. Details refer to Fire-fighting Arrangement Plan (drawing no. DSC808-520-000).

Portable Extinguisher and Firemen Furnishment To be provided according to SLOAS.

#### Firemen outfit

1 set firemen outfit to be provided immediate available.

Personal outfit including followings:

Exposure suit: The material can prevent skin not only from thermal radiation of flame, but also from burn and scald of steam. The surface of suit to be water-proof.

Fire boots and gloves: To be made of rubber or other nonconducting material

Fire armet: 1 set, to be anti-impacted effectively

Electric safety lamp (portable type): 1 set, approved type, lighting time not less than 3 hours

Fire ax: 1 set, approved type

Aerophone: 1 set, approved type. Each aerophone shall be provided with 1 flame-resisting life-saving line with enough length and strength. The rope can be tied on the aerophone's strap using spring grab or tied on a separate waistband, which can prevent aerophone from fall off when draw/drag/lift the life line.

#### Movable Extinguisher

All extinguishers to be approved by class and to be outfitted according the requirements. 1 wheeled dry powder extinguisher, with capacity of >45L, to be provided in E/R.

#### Portable Extinguisher

All extinguishers to be approved by class and to be outfitted according the requirements.

#### Door, Manhole, Hatch cover Porthole and Square Window

Wheelhouse to be equipped with 3 external entrance doors, steel watertight type, w/ round window, out-opening, steel doorframe, w/ insulation. The doors to superstructure, engine room and other work rooms to be steel watertight (as per BV requirement), out-opening type.

The superstructure doors to be steel non-watertight type with size of 1600×600mm. Accommodation doors to be B-class hinged fire doors with size of 1750x650mm,w/escape grafting.

Fixed door hook to be arranged when the door is in open status. The handle and lock shall be fixed on the door.

Meat& vegetable store room and food storage room to be arranged with one B-class fire-proof door each (with ventilation grille).

The opening of main deck cargo hatch to be 1650x2000mm. Coaming height to be 600 mm. Lower layer of the hatch to be wooden the thermal insulation cover and upper layer to be steel cover fastened by screw clamp. The opening of the hatch to be operated by booms. The hatch coaming to be covered thick wood inside, and 0.75mm thick stainless steel plate outside.

The wooden frame of refrigerating fish hold hatch to be covered 1.5mm thick stainless steel. The flange surface of hatch to be blended with 6mm thick stainless steel plate (overall width to be 150mm) to prevent hatch from collision

and abrasion coming from cargo tray and tightwire etc.. Stainless steel plate to be fixed by stainless steel screw. The frame of the thermal insulation cover and blinking plate to be wooden type, inner core to be foamed on site, and covered 3-cloth 6-oil glass steel. Insulating cover plate to be 150mm thick. Ø16mm block engine to be arranged on the thermal insulation cover and the wood frame of hatch.

The manhole covers to be installed on all oil tank, water tank and void tank. The clear light size to be 400×600mm. Hand-hole covers to be Ø300mm. The coaming with height of 55mm to be arranged for manholes of F.O. tank and L.O. tank in E/R.

Normal welded steel window with safety glass to be installed in wheelhouse. Clear light size to be 450× 630mm. Wheelhouse windows should have maximum visual range. Front window and side window should be inclined for avoiding light. Window wiper to be installed on side windows of portside and starboard. Electric heating to be provided for the 3 front windows. 2 outboard windows to be inward opening uplifting type, and inward distance to the shell plate of superstructure shall be not less than 50mm.

One square window opened toward inside, size of 450mm×630mm, with protective rails outside, to be arranged in the wall of the end of wheelhouse

The round windows (Ø250mm) with storm cover to be installed in other rooms of superstructure.

Nameplates made of plastic or brass to be installed on all the doors and valves and to be marked in English. The ship's call sign shall be arranged in wheelhouse.

#### Bulwark and Rails

Bulwark height to be 1m.

A gate with size of 600×800mm, used for unloading fish to shore, to be installed on the bulwark of main deck portside FR 24 where the cargo hatch locate.

All railings to be 1m high, and to be made according to GB standard. The steel rope railing to be installed in where the rescue boat located and cargo handling gear worked.

Steel tube storm railings to be installed in the outer wall of wheelhouse.

Stainless steel storm railings to be installed in accommodation and toilet.

#### Fishing Gear and Lifting Appliances for Fishing Vessel 2

##### Fishing Gear and Lifting Appliances

##### Trawl fishing device

1) Fishing device comprises of bottom trawl and floating trawl, both are stern type.

2) Stern ramp of 3000mm width to be arranged. Level fair-lead block to be installed on the ramp to reduce the wear of steel rope and netting gear.

3) Stern door shelf to be used to fix net rope, fasten opening fair-lead block and ensure the moving and fixing of net board. The ladder and the spotlight to be installed on the stern door shelf.

4) In order to complete the pushing/pulling net and unload fish to main deck, a general fishing machine to be installed:

Net rope winch: 2 sets (Local operation)

Boom with winch for unloading fish: 2 piece

5) Net rope winch to be made in China.

6) Fishing device include:

Net rope winch: 2 sets

Boom with winch: 2 piece

Unloading dynamic tackle (made in China): 1 set

Hydraulic system

Hydraulic Motor used for driving deck machine, trawling machine. The pump station and regulating device of hydraulic system to be complete supplied by net machine maker. Two hydraulic pumps (one for spare) of pump station to be driven by electromotor.

#### Hull Outfitting

Mark of ship name and registration port

Light housing of ship name to be arranged on compass deck.

Marks of ship name and registration port to be painted with paint.

Draught mark, load line mark

The draught to be metric marked at each side on the fore ship, aft ship and midship. Load line to be marked on midship. The above mentioned marks to be made of 6mm steel plates and welded to the ship.

Waterline mark

Load draught and scantling draught to be marked with intermittent weld bead.

Tank mark

Tank number to be embossed on the bottom plug and manhole.

Deck Storage Shelf etc.

Outfitting such as steel shelves with appropriate layers, wooden clapboard and guardrails etc. to be provided in all storage room (e.g. spare cabin, rope tank, workshop etc.)

Hull Supplies

Details refer to Hull Supply List (drawing no. DSC808-813-01MX)

Canvas Hood

Canvas hood to provide for following outfitting and equipment on the weather deck:

Searchlight

Fish hold hatch

Hoisting winch

Tail electric winch

Anchor machine

Anchor machine master

Vertical magnetic compass

## **Accommodation**

General

The arrangement for all cabins, e.g. living area, public area, corridor, pantry room and storage room refer to GA plan.

Crew

Senior – On bridge deck - 1

Crew ranked - Above the main deck - 10

Ordinary crew – Under the main deck – 4

Cabin Arrangement

Cabins

Accommodation to be arranged as below:

Senior – Captain

Crew ranked - Chief engineer, chief officer, second officer, second engineer, third engineer etc. – Twin room (three)

Seaman – Ordinary crew – Tetradic room (two)

Other Cabins

Galley

Meat &Vegetable store room

Dining room  
Bath room  
Toilet  
Food store room  
Wheel house  
Battery room  
Rope tank  
Storage room  
CO2 room  
Start battery room  
Fishing net room

### **Insulation and Deck Cover**

#### **Deck Wooden Covering**

Wooden covering of 50mm thick to be arranged on the weather deck of the main deck. High qualified bitumen primers to be painted. Wooden gratings to be installed on stern side.

Oak floor of L600×B70×T14mm to be installed in the wheelhouse and all accommodation.  
Self-extinguishing floor leather (w/certificate) to be installed on the floor. Deck paint to be used in non-live room and corridor, with self-extinguishing floor leather on it.

Latex cement layer of 40mm thick to be arranged for galley, food storage, toilet and bathing room. Anti-skid tiles to be installed for ensuring the water flow to the drainage hole.

#### **Galley**

The floor to be arranged with latex cement and anti-skid tiles.

From the floor to 200mm height of four walls to be arranged with latex cement and tiles.

Above 200mm height of four walls, the ceiling to be multi-layers plastic plywood and covered with stainless steel.

#### **Insulation and Internal Decoration**

When the decks and/or trunk bulkhead covered insulation to cross with other deck and /or trunk bulkhead, the insulation material located in intersection shall be expended 300mm length and overlapped.

All bulkheads opened to air, forecastle deck, wheelhouse, crew cabins and superstructure workroom to be covered with insulation plate (rock wool) of thickness 100mm. Asbestos insulation shall not be used anywhere on board. Insulation material in accommodation to be rock wool. The ceilings adjacent to environment shall be 100mm thick, and others to be 50mm thick. The place covered rock wool shall be arranged with one layer of plastic film. In the condition the ventilation and air condition system are working normally, insulation shall ensure that the external temperature of -30 °C and room temperature of +24 °C.

Meat &vegetable store room and floor storage: four walls, the floor and ceiling to be painted with paint.

Bathroom, toilet: the floor to be latex cement and anti-skid tiles. The foot of trunk bulkhead to be installed with tiles of 400~500mm height. Other area to be painted with white thick paint.

The floor of dining room and living cabins to be covered with oak floor of L600×B70×T14mm.

Deck paint: to be applied for storage etc.

### **Accommodation**

#### **Living Cabins**

Multiplex rock wool of thickness 25mm to be used as accommodation material in cabins wheelhouse and dining room.

Furniture in cabins to be made of wood blocks with painting covered. Wooden bed, polyurethane foam mattress and bedding cabinets to be installed in the crew cabins. The furniture and accessories should be marine type of high

standards. The cabins should be decorated. The decoration of cabins and workroom should be approved by Buyer. The materials and colors to be provided by Builder.

#### Interior Decoration in Galley

Multiplex rock wool with stainless steel covered to be used as interior decoration material for trunk bulkhead and ceiling in galley. Fitting method to be the same as the way used in living cabins.

#### Gangway, Stairway

Internal alleyway, stairway: the trunk and ceiling to be painted; the floor shall be painted and then covered with self-extinguish leatherette or rubber floor.

#### Bathroom and Toilet

The foot of wallboard to be covered with 400~500mm high tiles in bathroom and toilet. Other exposed part of trunk bulkhead to be painted with white paint.

#### Galvanized Steel

Location: food storage cabinet

#### Engineering Plastic Grille

To be arranged in following area:

Refrigerated fish hold (plastic rack to be numbered for dismounting convenience)

Galley

Rope tank

Package storage room

Steering gear room

Workshop

#### Other

Necessary quantities of hat-and-coat hooks with material of chromium coated whole copper or stainless steel to be arranged in all accommodation area, bath room and toilet.

### **Galley, Dining Room, Equipment**

Galley:

1—stainless steel pantry table

1—wooden cabinet

1—stainless steel wash trough

1—ele. Range (20persons, 15kW, complete set provided )

1—stainless steel dish rack

1—electric cooker

1—freezer 200L

1—refrigerator 150L

1—electric meat grinder

Dining room:

1—Electric water heater 20L

2—wooden dining table

1—single side seat with cabinet (0.5mm thick galvanized sheet to be covered inside)

1—double side seat with cabinet (0.5mm thick galvanized sheet to be covered inside)

### **Cabin Equipment**



All crew cabins to be equipped with transverse bed. Each cabin to be furnished with: 1×wardrobe cabin with drawer  
1×wooden chair  
1×writing desk with two drawers  
1×bookshelf  
Cabin wall to install cup, cup holder, ashtray and cloth hood. Each cabin to arrange 1× 220V electrical outlet. Chief engineer cabin to equip with washbasin and tap.

Floor of shower room to be covered with ceramics tile. And the room to be furnished with plastic curtain, rotatable plastic shower nozzle, 100L electric shower. Soapbox, towel, cloth hook, wooden grids, mirror and washbasin to be outfitted as well. The room to comply with the sanitary requirements of Builder's standard.

Meat &vegetable store room and food storage to be arranged in the fore ship:

Meat & vegetable store room to be provided with two (2) horizontal deep freezer of approx.300L and one (1) stainless steel shelf in blank space.

Dry food storage to be arranged with wooden floor grids and stainless steel storage racks.

The door of the refrigerated room should be all covered and insulated by polyurethane foaming. The edge of the door should be sealed with airproof rubber plastic seal components. The door to be outward swing type, and the door hook for fastening to be installed and acted when the door is opened.

Electric heater to be used for heating in the winter.

Accommodation

Dining room

Wheel house

Toilet and bathing room

Rope tank

Engine room: 2 set 2kW

Steering gear room

### **Fish Hold, Refrigeration Equipment**

Fish Hold

The ship to arrange one fish hold of total capacity ~150m<sup>3</sup>. Fish hold's temperature should be cooled down to -5°C. Cold supply to be marine refrigerating equipment with working medium of Freon 22 and air cooled.

Fish hold, with opening size of 1650mm×2000mm, to be equipped with insulation wood cover and metal cover which both covers to be rigged by turnbuckle.

Two sewage wells to be arranged in the fish hold. Sewage to be discharged by a bilge pump located in E/R. In addition, 2 fixed jet pumps with check valves to be installed in E/R. Sea water from fire pumps to be used as injection liquid.

Remained sewage in fish hold to be discharged from bilge well to main deck via complement pipe of Ø60 mm.

A guide groove to be arranged in hold for installing removable fish lock plate of 50mm thickness (supplied by Buyer together with relevant drawings). The equipment for refrigeration container to be arranged in the hold as per the requirement from Buyer (supplied by Buyer).

Insulation of 100mm thickness to be arranged in the floor of fish hold. Metal plate of 8mm to be installed between struts. Concrete layer of thickness 40mm to be provided. Manhole to be arranged with coaming and cement injected. Polyurethane foaming of 100mm to be arranged for the bulkhead and roof of the side fore and aft of the fish hold. The hold to be waterproof by using PVC film. The insulation layer must be protected on which there is waterproof plywood layer, and covered two layers of glass fabric, two layers of unsaturated polyester resin and one layer of gelcoat resin.

## Refrigeration Equipment

2 sets refrigerant compressors made by YANTAI MOON Refrigeration Co., Ltd to be installed:

Type: 4DC7.2

Refrigerating capacity: 11kW each(-15/35°C)

Motor Power: 5.5kW

Revolution: 1450rpm

Power supply: 380V, 50Hz

The refrigerant compressor to be manually controlled. Temperature indication shall be arranged for fish hold.

2 sets condensers, to be provided by manufactory with complete set.

1 set high-pressure liquid receiver, to be provided by manufactory with complete set.

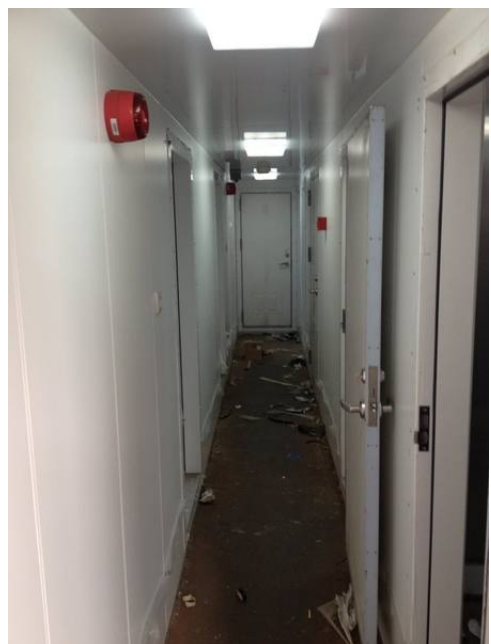
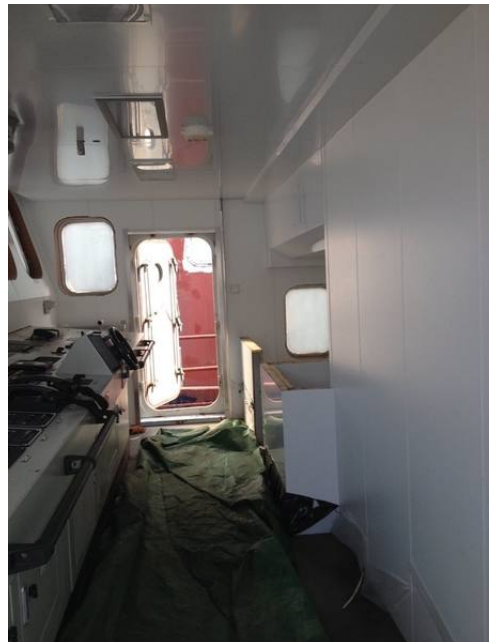
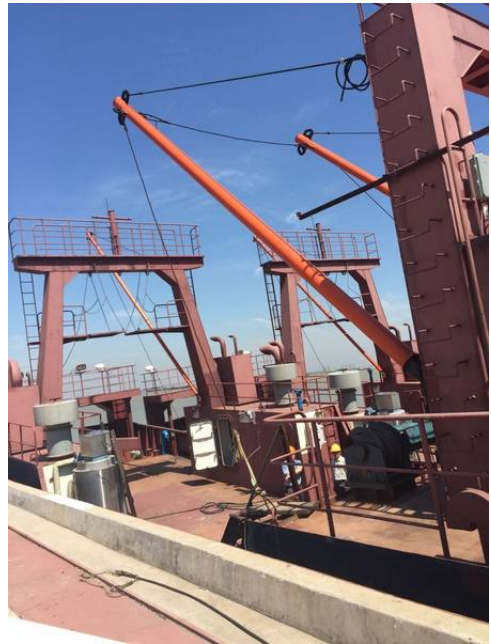
1 set dry filter, 1set air separator, to be provided by manufactory with complete set.

2 sets Cooler 80m<sup>2</sup>, copper tube, copper sheet, stainless steel surface, with electric heater.

Valves and instrument: control valves to be made by DANFOSS, other valves to be provided by Lvshun Yuanbao.

1 set ice making machine (380V, 30kW), located on starboard of main deck.

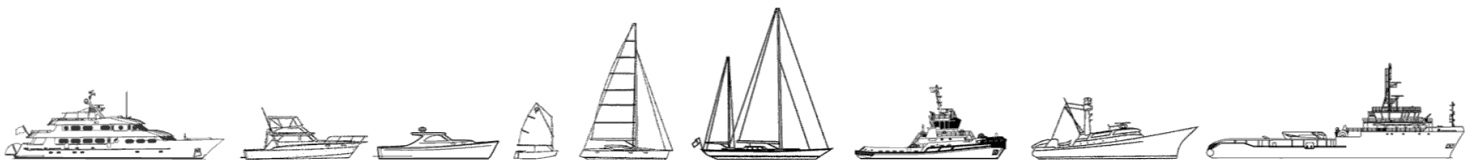








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