STANDARD ESPECIFICATION

Versão em Inglês

Inglish Version

ESPECIFICACAO STANDARD

VESSEL PARTICULARS

NAME: OFFICIAL N°1

HOME PORT: CALL LETTERS:

FLAG:

CLASSIFICATION:

BUILDER

HULL/YARD N°

DELIVERED DATE:

L.O.A.:

L.B.P.:

BREADTH, MOLDED:

DEPTH, MOLDED:

DRAFT:

DEADWEIGHT:

GROSS REGISTER TON:

NET REGISTER TON:

DRAFT FORM.:

DRAFT AFTERW.:

ELECTRIC POWER:

ESTIMATED FOR WHEN ENTERING DRY-DOCK

DRYDOCKING PERIOD

100 Has herewith specified, mainly for:
- Underwater body, inspection, cleaning and painting.
- Propeller, propeller shaft, seal and stern tube inspection and clearance.
- Rudder, inspection and clearance.
- Steel work.
- Others-

Days in Drydock:
First day:
Additional days (each):

Code _____ Cost _____|___

SERVICES

101.

Shifting the vessel: In/out of drydock
In/out shipyard alongside

Includes:

- Pilot
- Tugs, boats
- Line handlers, etc.

Code _____ Cost _____|___

The above item has to be follwed step by step by:
[ ] Chief Mate [ ] 1st Mate [ ] 2nd Mate
Supervision & final workapproved by Master.

102. ELECTRIC POWER SUPPLY

In drydock (allow for Kw/day
Alongside (allow for Kw/day

Total based on _____ days

Note: Include connecting and disconnecting electric cables

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer. [ ] 3rd Eng.
Check & final approval by Chief Engeer.

103. FIRELINE WATER

Connecting up and keep under pressure (100 psi against 2 2 1/2" hoses to the vessel fireline system-salt water - while undergoimg repairs (drydock + alongside)

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] Chief Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

104 FIRE WATCHMAN

Furnish fire watchman service necessary to undertake shipyard and port regulations while vessel is undertaking repairs

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

105. COOLING WATER IN DRYDOCK

Connecting up and supply salt water cooling to the refrigerating plant condenser while vessel is in drydock. Disconnecting included.

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chief Engeer.

106. SEA WATER AND/OR FRESH WATER SUPPLY

As required

Sea water supplied at _____/ton.

Fresh water supplied at _____/ton.

Hose connection and disconnection _____

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

107 OVERBOARD DISCHARGES

Various overboard discharges, scuppers, wash basins, galley, pantry and machinery cooling water to be led clear of ship's side

For each wood plug _____

Flexible hose (refrig. machin. disch.) _____

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

108. TELEPHONE

Shore telephone including local calls
Per day _____

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

109. HEATING OF ELECTRICAL MOTORS

When drydocking period exceeds four days supply the necessary heating lamps to bring up main electric motors insulating resistance as required by vessel
Price per heating lamp _____

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chief Engeer.

110 GARBAGE REMOVAL

Furnish a container and labor to remove daily the accumalated garbage

_____ each time garbage removed

Code _____ Cost _____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

111. CRANE SERVICE FOR SHIP'S PROVISIONS

When required supply crane service for loading/unloading ship's provisions, spares

Crane w/operator per hour _____

Code _____ Cost _____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

112 TRIALS

Dock
While ship is in drydock afloat after repairs asure this same position until owner's representative confirms the good function of all elements of systems below water level line.

Dock–Alongside
Furnish labor to tighten all vessel's mooring lines and wires and rig additional lines as required to secure the vessel to the pier for a trial of the engine at limited r.p.m. to suit conditions.

112 .../

Sea trials
Furnish labor and material to assist in sea trials as may be requires by owner's representative

_____ Hour per man

_____ Launch per hour

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf Engeer.

113. CLEANLINESS

obs. - All cleaning which will be necessary as a result of opening up machinery and parts, etc, for work as detailed in this specification is to be included. The same applies to cleaning the areas adjacent or around above name items, including cleaning and guards for fire protection purposes.

To avoid dirting lobbies and alleyways where the shipyard employeers have to walk for acess to the repair place, the floor is to be temporarily covered with cardboard paper, vinyl covered paper or other suitable material.

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

114. STAGING / ACCESS

Staging althougt not specified, but where such is obviously required to be included.
The removal of engine room skylight to allow and unloading of material on board, as the instalation of a temporary guard rail all around the opening fitted with awning to protect from rain, etc, and the reinstalation of skylight are supposed to be included in items served.
Any parts damaged by shipyard are to be made at no cost to owner.
This also applies to pipe insulation, burned painting which may be damaged as a result of removals of machinery and parts, fire work, etc.

115. VENTILATION

Ventilation as service to the works correlated to the diferent items are supposed to be included in same items.

116. BLOCKS REMOVAL

Keel and/or bilge removal for examination and/or coating.

_____ per block

Erection of cribbing block or poppet to provide temporary support of vessel where required because of extensive block removal.

_____ per crib

note: This does not included block removal and erection or temporary supports for steel work renewal or plug access when are not according to docking plan.

200. HULL / WASHING

Areas:

Flat botton _____ m^2

Vertical botton _____ m^2

Bootop _____ m^2

Top side _____ m^2

The hull from keel to the rail to be fresh water rinsed before commencement of paiting operation, except the hull that is to be blown with dry compressed air whenever dry-sand sweeping is used.
All oil stains are to be removed with an approved degreased agent and rinsed afterwards.

Code _____ Cost _____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

201. FLAT BOTTON

Preparation:

Manual scraping _____ m^2
Rotary wire brushing _____ m^2
Gritsweeping (st 3) _____ m^2
Gritblasting (Sa 2 1/2) _____ m^2

Painting:

Two touch-up coat (s) of primer _____mic._____ m^2
Two full coats primer _____mic._____ m^2
One full coat coating _____mic. _____ m^2
Two full costs of A/F _____mic. _____ m^2

Code _____ Cost _____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

202. VERTICAL BOTTON AND RUDDER

Preparation:

Hand scraping _____ m^2
Rotary wire brushing _____ m^2
Gritsweeping (st 3) _____ m^2
Gritblasting (Sa 2 1/2) _____ m^2

Painting:

One/two touch up coats primer_____ mic._____m^2
One/two full coats of primer_____ mic._____m^2
Full coat of undercoating_____ mic._____m^2
One/two full coats of A/F_____mic._____m^2

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

203. BOOTTOP

Preparation:

Hand scraping _____ m^2
Rotary wire brushing _____ m^2
Gritsweeping (st 3) _____ m^2
Gritblasting (Sa 2 1/2) _____ m^2

Painting:

One/two touch up coats primer_____ mic._____m^2
One/two full coats of primer_____ mic._____m^2
One full coat undercoating_____ mic._____m^2
One/two full coats of A/F_____ mic._____m^2

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

204. TOP-SIDES

Preparation:

Hand scraping _____ m^2
Rotary wire brushing _____ m^2
Gritsweeping (st 3) _____ m^2
Gritblasting (Sa 2 1/2) _____ m^2

Painting:

Thre touch up coats primer_____ mic._____ m^2
One/two full coats of primer_____ mic._____ m^2
Full coat of undercoating_____mic._____ m^2
One/ full coats of finish coat___ __ mic._____ m^2

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

205. HULL MARKS

Draft marks	(6)
Freeboard marks	(2)
Ship's name	(3)
Home port	(1)

To be painted with white enamel

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

206.

If required freebord marks Port/Starboard to be checked with Classification Surveyor with a wood rule. Staging included.

Code _____ Cost _____|___

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

note: Paints of owner's supply
Maker:
Primer – 1st coat
2nd coat
Undercoating, bottom
A/F plat botton – 1st coat
2nd coat
A/F Vert. bottom/Boottop – 1st coat
2nd coat
Finishing top–sides – 1st coat
2nd coat

The painting process has to be in compliance with marker's techical specification.
After the gritblasting the dust to be remove by dried compressed air and forthwith upon first coat of primer to be applied before oxidation takes place.
Damage areas after treatment caused by tugs when undocking or alongside to be repaired before ship leaves shipyard.
When in the above items areas have not been specified please include unit values with respective services included.
Thinners used for cleaning of painting equipment are for contractores account.

207. SEA CHESTS

Strainers to be removed N°_____
Inside area to be treated like vertical botton
Studs or nuts to be renewed when not found in good condition and locked with split pins or brass wire
Staging included.

Code _____ Cost _____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf-Engeer.

208. CATHODIC PROTECTION

All the anodes to be inspected together with owner's representative.

Bilge Keel	N°	Weight
Stern frame	N°	Weight
Rudder	N°	Weight
Seachests	N°	Weight

Allow for 100% of total weight renewal
Protect anodes with grease during hull painting. Remove the grease after complection of painting.

_____ per Kg

Code _____ Cost _____

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

209. ANCHORS, ANCHOR CHAINS AND LOCKERS

a) Range the vessel's port and starboard anchors and chains for examination by Classification Surveyor and owner's representative.
Hose down the chains and mark the chains as directed by Chief Mate
The chain locker is to be cleaned and the locker suction pipe cleaned.
Apply float coat (Bitumastic, Apexior) to the bulkheads, divisional plate and all internal parts of locker.
After final inspection restow the chains in the locker and secure anchors in good order.

Code _____ Cost _____|___

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

b) Each lenght of port and starboard anchor chains are to be gauged and recorded furnish owner's representative with three copies.

Code _____ Cost _____|___

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

210. RUDDER - CLEARANCES/COATING

a) As soon as praticable furnish labor and material and staging to check the clearances of the rudder pintles.
Report findings to owner's representative

b) Rudder internal coating
Remove plugs
Coat internals with float-coat, filling up and draining twice with water, leaving the excess remaining coat inside.

Code _____ Cost _____|___

The above item has to be follwed step by step by:
[ ] Chf Mate [ ] 1st Mate [ ] 2nd Mate
Check & final approval by Master

211. PROPELLER

Nº of blades Diameter Weight

Material:
Mechanical wire brushing of hub and blades
Check for fractures using "dye-check" teste in top of blades.
Cavitation spots to be ground up, welded and finally groud.
Remove the propeller nut cover and inspect for tightness.
Harden up the nut.
Reinstall cover filling up with grease.
Cement lock nuts.
Remove plugs of propeller hub, check and refill with grease.
Staging included.

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf-Engeer.

211. A

Removal of propeller, conveying it to and from the workshop.
Fitting in place.

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf-Engeer.

212. PROPELLER SHAFT – WEARDOWN

As soon as praticable furnish labour and staging to determinate the clearance of the stern tube bearing.

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf–Engeer.

213. PROPELLER SHAFT / STERN TUBE (Simplex type)

Propel.shaft diameter _____

Interm.shaft diameter _____

With of propeller shaft for inspection.
Propeller and intermediate shaft to be removed.
Calibrations to be obtained recorded to the propeller shaft and stern tube bearing in way of service areas.
Magnaflux test to be carried out in way of taper and key in presence of owner's representative and Classification Surveyor.
Forward and aft seals to be removed, opened up, cleaned amd reassembled with new rubber seals to be supplied by owner.
Tail shaft to be reinstalled, intermediate shaft bearing to be examined and intermediate shaft put in place again and coupled
Refill system with oil (ship supply), registering used quantity.
Recheck wear down values after assembling.

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf–Engeer.

213. A PROPELLER SHAFT - STERN TUBE (Lignum vitae)

Propel.shaft diameter _____
Interm.shaft diameter _____

With drawal of propeller shaft for inspection.
Propeller and intermediate shaft to be removed.
Calibrations to be obtained and recorded to the propeller shaft and stern tube bearing in way of service areas.
Magnaflux test to be carried out in way of taper and key in presence of owner's representative and Classification Surveyor.
Make fair the weardown grooves on the propeller shaft bush.
Renewal of stern bush lower half/two halveslignun vitae. Machinery according actual alignment conditions (check with Chf.Engeer).
Check the cooling system efectiveness.
Tailshaft to be reinstalled, intermediate shaft bearing to be examined and Intermediate shaft put in place again and coupled.

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf-Engeer.

213. B TAIL SHAFT CARRYING OUT

Conveying tail shaft to and from work shop.
Opening in hull and staging to be included.

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf-Engeer.

213.B /...

Obs. - No gritsweeping or gritbasting must be allowed in vicinity of stern-frame while stern tube is kept open and/or works are being performed.
During cleaning of sterntube no rags are to be used (dust free cloth instead).
The former tightening reference mark of propeller nut is to be shown to owner's representative.
Reinstall of tail shaft is to be done in presence of owner's representative.

214. INTERMEDIATE SHAFT BEARINGS

Opening for inspection of owner's representative and Classification Surveyor.
Checking of seals and lub oil deflectors.

Nº of bearigns_____

Shaft diameter _____

Code _____ Cost _____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf-Engeer.

300. BOTTOM VALVES

Furnish labour and material for:

Opening
Cleaning
Lapping seats
Repacking
Internal painting (2 coats apexior)

Inspection to be done by owner's representative and Classification Surveyor.
The removed valves are to be assembled using new gaskets (of yard supply).

300. .../

N° Type Diameter

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf-Engeer.

301. OVERBOARD DISCHARGE VALVE

As item 300

N° Type Diameter

Code _____ Cost _____|____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf-Engeer.

302. INTERMEDIATE VALVES AFTER FILTER

Nº	Type	Diameter

Code _____ Cost _____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf-Engeer.

303. VENT AND CLEANING VALVES/COCKS FROM SEACHESTS

As item 300

Nº	Type	Diameter

Code _____ Cost _____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf-Engeer.

304. STORM VALVES

Opening
Cleaning
Qverhaul valve disc
Check pins seats for trueness

Valves to be inspected by owner's representative and Classification Surveyor

N° Diameter

Code _____ Cost _____

The above item has to be follwed step by step by:
[ ] 1st Engeer. [ ] 2nd Engeer [ ] 3rd Eng.
Check & final approval by Chf-Engeer.