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**AUTHORITY:** **The Secretary of State for the Home Department acting through Border Force**

**statement of requirements**

HMC PROTECTOR

LIFE SAVING APPLIANCE AND MACHINERY MAINTENANCE

September 2020

C19529

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<https://www.gov.uk/government/publications/government-security-classifications>

## Definitions

| Phrase | Definition |
| --- | --- |
| Acceptance | The issuing of an acceptance certificate to the Supplier, signed by the BFOO on behalf of the Authority following the re-floating of the vessel following the lifting out from the water |
| Agreed Facility | A single phone number for the Supplier giving access to a point of contact able to give user friendly assistance to persons experiencing technical problems with any part or operation of the Cutters |
| Alongside Berth | A suitable quay/berth with at least 1m depth below Low Water Spring Tides (LWS) at all times complete with access by gangway/brow. |
| BFOO | Border Force Overseeing Officer |
| Cardinal Date Plan (CDP) | A plan provided by the Supplier mapping out the significant dates for a project |
| Cutter | Her Majesty’s Cutter (HMC) PROTECTOR |
| Defect Rectification | Work undertaken to resolve any kind of defect identified and listed in the work package at Annex D. |
| Emergent work | Any work that emerges from the Planned Maintenance, which is notified to the Supplier in this Statement of Requirements. Any repairs which are required as a direct result of defects found during this package of works. |
| Lloyd’s Register | Lloyd’s Register’s Rules and Regulations set standards for the design, construction and lifetime maintenance of ships, offshore units and land-based installations. |
| Major Defect | Any defect or fault which reduces the performance of the Cutter, so it is unable to perform its duties. |
| MCA | Maritime and Coastguard Agency |
| Minor Defect | Any defect or fault which reduces the performance of the Cutter while allowing it to be safely operated for its duties. |
| Original Equipment Manufacturer (OEM) | The original manufacturer of a piece of equipment. |
| Project Completion | Formal notification by the BFOO, on behalf of the Authority, to the Supplier that the project is completed to a satisfactory standard. The Supplier will be issued a Project Completion Certificate. |
| Project Conclusion Meeting (PCM) | The mandated close-down meeting between Supplier and BFOO. |
| Project Initiation Meeting (PIM) | The initial, mandated, meeting between Supplier and BFOO. |
| Planned Maintenance | The package of works as detailed as detailed in the requirement. |
| Project Manager | A member of the Supplier’s personnel who is responsible for the overall planning and execution of a project. |
| Progress Report | A report giving details of progress against the agreed CDP |
| Rectification Plan | A plan to rectify a specified defect, giving dates and reasons for relevant actions to effect full rectification of the defect. |
| Safe Working Load (SWL) | The maximum load a piece of equipment can safely operate under. |
| Slipway/Dry Dock | A Slipway or Dry Dock of suitable size, complete with dock blocks in accordance with a MTLU supplied docking plan and to the satisfaction of the Border Forcer Overseeing Officer complete with safe permanent means of access to the Vessel. |
| Spares | Unless specified as Border Force supplied; all spare parts required to complete an overhaul/maintenance/service including paint/anodes |
| Vessel | HMC [PROTECTOR] |
| Warranty | A guarantee, issued to the Authority by the Supplier, promising to repair or replace something if necessary, within a specified period. |
| WHO | World Health Organisation |
| Working Location | The area in which the Cutter is operational |
| Work in Wake | This is work involved due to preparation and after the repairs/maintenance works are completed. |

## Part 1: General

### 1.0 Background

* 1. The Authority currently operates a fleet of eleven sea going patrol craft operating in both UK National and International waters. This consists of five Cutters and six Coastal Patrol Vessels (CPV).
  2. The four Damen 4207 patrol vessels, of which HMC PROTECTOR is one, are built in accordance with Lloyds 100A+ and hold valid MCA International Load line certification.
  3. The primary roles of the Cutters are:
     1. To provide a mobile, flexible, seaborne force capable of maintaining an effective deterrent against illegal immigration, smuggling and other breaches of the law administered by Border Force both within and outside the territorial waters of the UK.
     2. To increase maritime intelligence, undertake surveillance and improve international liaison in combating illegal immigration, the smuggling of drugs and movement of instruments of terrorism by sea;
     3. To intercept suspect vessels in territorial and international waters; and
     4. To provide mutual assistance to other EC countries, the Channel Isles, the Isle of Man and other partners on the UK border.
  4. In addition to these primary responsibilities, Border Force also undertake tasks on behalf of the Ministry of Defence, Maritime and Coastguard Authority, National Crime Authority, Police and UK Fisheries Agencies.

## Part 2: Insurance

### 2.0 Insurance

2.1 The Supplier is to provide an in-date insurance certificate that clearly states the limit of liability to be no less than £15,000,000.00.

2.2 The limit of liability, as expressed in 2.1, is to be for each and every accident or series of accidents arising from the same event.

2.3 The insurance certificate is to cover all employees of the Supplier and any individuals sub-contracted by the Supplier or the Authority to conduct undertaking of this requirement.

2.4 The insurance certificate is to be submitted to the Authority in .pdf format.

## Part 3: Objectives, Location and Constraints

### 3.0 Objectives

3.1 The objective of this specification is to provide the requirements for;

3.1.1 the maintenance of equipment and machinery;

3.1.2 the recertification of all safety equipment;

3.1.3 the rectification of specified defects; and, if applicable

3.1.4 conduct modifications to the fabric of the vessel.

### Location

* 1. Due to the operational Working Location of the Cutter this requirement is to be undertaken inside the following geographical parameters;

4.1.1 Portland Bill

4.1.2 Great Yarmouth

### Constraints

* 1. All specified work must be completed by the Supplier.

5.2 All quotations are to be submitted in currency GBP.

5.3 All work must be completed in accordance with this Specification of Requirements and must be compliant to all applicable standards or Flag State regulations and in accordance with best industry standards.

5.4 All new parts and equipment fitted are to be supportable for a period of five years following installation.

5.5 All new equipment shall be provided with relevant operator & maintenance documentation, and any applicable certification.

5.6 For the purposes of this requirement, the working week is taken as meaning Monday to Friday and consists of five (5) working days.

5.7 For the purposes of this requirement, the working day is to be no less than any eight (8) hours period between 07:00am and 18:00pm.

5.8 The Authority expects the duration of this requirement to be no longer than 10 working days.

5.9 The start date for this requirement is 5th October.

5.10 The expiry date for this requirement is be no later than 31st October 2020.

## Part 4: Provision of Services

### General Provision

6.1 The Authority will appoint a BFOO for the duration of this requirement who shall be entitled to inspect any work or to have it inspected by their duly authorised representative.

6.2 The Authority may be engaging with OEM manufacturers under separate commercial arrangements. The Supplier is to afford access, as required, and assist with various tasks as instructed by the BFOO to complete this specific work. The OEM’s are;

6.2.1 Kongsberg Marine

6.2.2 Naiad Controls.

6.2.3 Caterpillar Service engineer

6.2.4 Mechanical Engineers

6.2.5 Electrical Engineers

6.3.6 Project Manager

6.2.7 Finning

6.3 The Supplier shall submit a draft CDP covering the completion of all planned work with the formal quotation for this work package, in an accessible Microsoft Office document format (.doc, .pdf or .xlsx), for approval by the Authority. Once agreed by the Authority this will form the final CDP to be followed.

6.4 During the contract period, the BFOO shall, during normal working hours, be afforded access to all premises of the yard or its suppliers where any parts are being manufactured, repaired or serviced.

6.5 All tasks shall be completed by suitably qualified and experienced personnel (SQEP) in relation to the equipment being worked upon.

6.6 All bunk space soft furnishings, including mattresses are to be removed to a secure clean environment for the duration of this requirement, or covered to adequately protect them from becoming soiled in any way.

6.7 The Supplier is responsible for returning any soft furnishings, including mattresses, that may have become soiled during the conduct of § 6.6 to a clean and usable state.

6.8 Should the vessel need to be removed from the water, either as part of the specified requirement, or at any point during the Supplier’s CDP period without prior identification of this need, and with the approval of the BFOO, the vessel will be formally handed over into the custody of the Supplier using the Handover Certificate (Annex I).

6.8.1 By accepting the vessel into their custody, the Supplier understands and acknowledges that they are liable to all risks associated, whether known, unknown, identified or implied, with the removal of a water-borne vessel from the water.

6.9 Should the vessel require re-floating as a result of being removed from the water, as stated in § 6.8, following approval from the BFOO and successful re-floating, the Supplier will be issued with an Acceptance Certificate (Annex J) indicating the vessel is now in the custody of the Authority.

### 7.0 Project Management

7.1 The Supplier must schedule and attend a PIM with the BFOO prior to any works being undertaken on the vessel.

7.2 During the meeting, as stated in § 7.1, the BFOO and the Supplier will confirm the following;

7.2.1 the Emergent Work process;

7.2.2 berthing arrangements;

7.2.3 any Health and Safety arrangements pertinent to the Supplier’s premises;

7.2.4 Border Force crew accommodation arrangements;

7.2.5 any OEM manufacturers that are expected to work on the vessel during the Supplier’s CDP period; and

7.2.6 the proposed date of the PCM.

7.3 During the course of the Supplier’s CDP period the Supplier is to provide interim reports to the BFOO within twenty-four hours of the identification of any deviation from the submitted CDP. Any cost implications are to be dealt with in accordance with the EW process as stated in § 9.0.

7.4 The Supplier must schedule and attend a PCM with the BFOO.

7.5 During the meeting, as stated in § 7.4, the BFOO and the Supplier will confirm the following;

7.5.1 all specified requirements have been completed;

7.5.2 any variations to the specified requirements, as agreed by the BFOO, during the Supplier’s CDP period, have been agreed in accordance with § 7.3;

7.5.3 all Emergent Work Individual Item Proformas have been signed and agreed by the BFOO and the Supplier in accordance with §9.0; and

7.5.4 the Supplier and the BFOO are to agree a project total cost.

7.6 Following the PCM, as stated in § 7.4, and to the satisfaction of the BFOO, formal notification of Completion will be given to the Supplier and a Project Completion Certificate issued in accordance with § 12.0.

### 8.0 Warranty

8.1 The Supplier shall provide an Agreed Facility for reporting faults and obtaining technical advice, covering the hours between 08:00 and 16:30, Monday to Friday, for the logging of faults or data. Response times for such service shall allow for all faults to be logged, given a reference number and Rectification plan agreed between all parties within a maximum of forty-eight hours of the fault being logged.

8.2 The Supplier shall provide warranty repairs in the event that any of the supplied or repaired parts develops a fault during the parts warranty period as detailed in § 8.3 and 8.4.

8.3 All Work carried out by the Supplier during the period of this contract shall be covered by a one-year Warranty commencing from the date of acceptance back in to the custody of the Authority.

8.4 All new parts supplied or fitted during the period of this contract shall be covered by a one-year warranty or such other provided warranty if it is longer than the minimum one year commencing from the date of acceptance back in to the custody of the Authority.

8.5 In the event that a Warranty Major Defect is notified to the Supplier that will render the Cutter non-operational. The Supplier shall provide services to ensure the Cutter is restored to full working condition within forty-eight hours, calculated from the date and time on which the Authority agrees the Supplier personnel can gain access to the Cutter. In the event a Major Defect cannot be rectified within the assigned period, a Rectification Plan must be agreed with the Authority within forty-eight hours of identification of the potential failure.

8.6 In the event that a Warranty Minor Defect is notified to the Supplier, other than those that will render the Cutter non-operational, the Supplier shall provide services to ensure the Cutter is restored to full working condition, as quickly as possible, and in any event, within ten working days, calculated from the date and time on which the Authority agrees the Supplier personnel can gain access to the Cutter. In the event a Minor Defect cannot be rectified within the assigned period, a Rectification Plan must be agreed with the Authority within forty-eight hours of identification of the potential failure.

## Part 5: Emergent Work

### 9.0 Emergent Work

9.1 Only the BFOO can authorise EW on behalf of the Authority.

9.2 The Supplier is to inform the BFOO if authorisation to engage on an EW task is made by any member of the vessel’s crew or a member of Border Force.

9.3 All identified EW proposals are to be submitted to the BFOO on the attached Emergent Work Individual Item Proforma (Annex G) prior to the commencement of any work for authorisation.

9.4 All costs and any time delays to the completion date are to be articulated to the BFOO with the EW proposal.

9.5 The BFOO will authorise the Emergent Work on behalf of the Authority, if deemed appropriate by the BFOO, and provide formal acknowledgement of acceptance of the proposal to the Supplier.

9.6 Any proposals or work that has been undertaken by the Supplier, or a sub-contractor of the Supplier, and that are found to have not been authorised by the BFOO in accordance with § 9.0, upon final invoice submission, will be strictly at the expense of the Supplier and will not be remunerated by the Authority.

9.7 The BFOO and the Supplier are to record the cumulative Emergent Work costs on the attached spreadsheet (Annex H), or in a similar format, which will be cross checked and analysed at the Weekly progress meeting.

9.8 The supplier will scan all Emergent Works Individual Item proformas that have been authorised and email them to the BFOO, along with the overall Emergent Work Item Record Spreadsheet (Annex H).

**NB: The Supplier must, therefore, liaise with the BFOO for every item of EW that requires consideration before the Supplier commences work.**

## Part 6: Trials, Certification and Acceptance

### 10.0 Trials

10.1 Because of the specialist nature of the vessel, the Authority will provide a minimum of five (5) crew members familiar with the navigational controls and engineering systems of the Cutter during any trials.

10.2 On completion of all work and once the Supplier has satisfied themselves that the Cutter is in a seaworthy condition; the seaworthiness of the vessel will be demonstrated to the Authority.

10.3 Where propulsion work has been undertaken, trials shall include propulsion and manoeuvring trials measured against original trials data for comparison. This data will be supplied by the Authority.

### 11.0 Certification

11.1 All certification required for regulatory compliance, or requested by the Authority, shall be supplied enclosed in clear plastic envelopes within a four-ring ring binder, complete with an index. An electronic copy shall be forwarded by e-mail to the Authority in an accessible Microsoft Office format.

11.2 All certificates and reports, specified as required, are to be provided before acceptance.

### 12.0 Project Completion

12.1 Once approved by the BFOO, formal notification of Project Completion will be given to the Supplier by the issuing of a Project Completion Certificate (Annex J).

12.2 The Project Completion Certificate will only be issued to the Supplier after:

12.2.1 successful completion of all specified items as stated in this requirement;

12.2.2 the Supplier has formally presented all certificates to the BFOO during the PCM in accordance with § 11; and

12.2.3 upon successful completion of any applicable trials required in response to the work undertaken.

**NB: The issuing of a Project Completion Certificate to the Supplier by the Authority, or a duly authorised representative of the Authority, does in no way effect the warranty requirements as specified in this requirement nor the statutory rights of the Authority.**

## Part 7: Charges and Payment

### 13.0 Charges and Payment

13.1 All invoices are to be submitted in currency; GBP.

13.2 All invoice correspondence is to be as per instructions on the Authority-issued PO document only.

13.3 The Supplier will receive one (1) Purchase Order (PO) number for this requirement. It may be amended by the Authority from time to time.

13.4 Upon issue of a PO by the Authority, and following approval from the BFOO, the Supplier can submit an invoice(s) to the email address provided in accordance with the line-items on the PO document ensuring that all mandatory data is on the Invoice.

13.5 On completion, the Supplier shall provide the Authority with a completed schedule confirming the individual cost breakdown for each item of specified work and emerging work for approval. Following BFOO approval and agreement of this schedule the Supplier will invoice the Authority for 100% of the total amount.

13.6 All travel and subsistence costs related to warranty defect repairs shall be recharged at the Home Office reimbursable T&S rates as stipulated in Annex K. Any additional costs outside those in Annex K are to be strictly at the expense of the Supplier.

13.7 The Supplier is to ensure that every item of specified work has been completed in line with this Specification of Requirements or they have a formal acknowledgement from the BFOO allowing for non-completion.

13.8 The Supplier is to ensure that all EW tasks are approved by the BFOO, signed off by the BFOO and serialised appropriately and recorded in the EW spreadsheet (Annex H).

13.9 Failure, by the Supplier, to include EW that is compliant with the instructions set out at § 9.0, will result in the Authority being unable to accept them for remuneration. If non-compliant tasks, either specified or emergent, are invoiced for payment, these costs will be rejected by the Authority and they will be at the expense of the Supplier.

**NB: The Authority reserves the right to withhold payment from the Supplier, in part or in full, should any, specified or otherwise, condition as expressed in this Specification of requirements, not be successfully met by the Supplier and to the satisfaction of the BFOO.**

## Part 14: Information for bidders

All received bids must be compliant with the above mandatory requirements to be considered for evaluation. The bidder offering the lowest price for all the mandatory requirements with a compliant tender will be awarded the contract.

Once the contract for the purchase of these services are signed by both sides, all orders for goods will be placed by Home Office Purchase Order quoting relevant contract reference.

Any questions, queries or clarifications regarding this tender should be submitted to [Paul.Tooke@homeoffice.gov.uk](mailto:Paul.Tooke@homeoffice.gov.uk) by 11.59 hours on Tuesday 29th September 2020 at the latest.

All written submissions should be submitted to [Paul.Tooke@homeoffice.gov.uk](mailto:Paul.Tooke@homeoffice.gov.uk) by 11.59 hours on Thursday 1st October 2020 at the latest.

Please note any agreement signed with your Company will be subject to the Standard UK Government Short Form Terms and Conditions for Goods and Services (attached for reference).

# Annex A: General Requirements of Work

### 1.0 Shore Power

* 1. The supplier is to provide 415 volt (± 5 volts) 50 Hz 63amp, three phase shore power from grid/mains for the duration of the maintenance/LSA period.
  2. Supplier to provide costs for;
     1. Connection of shore power cable
     2. Disconnection of shore power cable
     3. Unit cost per kWh.
  3. Payment of electricity consumed will be covered under the Emergent Work process.
  4. If direct shore power is not available, the provision of a shore-based generator may be required after consultation with the BFOO.
     1. Supplier to provide costs for;
        1. Hire of generator
        2. Connection and disconnection of power cable
        3. Unit cost per kWh

### 2.0 Berthing

2.1 The Supplier must be able to provide appropriately sized and secure alongside berthing, as required, during this period of works with a minimum depth of 1m below Low Water Spring Tides.

2.2 Supplier to provide costs for;

2.2.1 Daily cost of berth in accordance with 2.1; and

2.2.2 Suitable gangway access at all times and at all states of the tide.

2.3 The Supplier must provide a means of safe access. The Work-in-Wake for this provision will be dealt with in accordance with the EW procedure as outlined in Pt. 5, § 9.0.

### 3.0 Third-Party Costs

3.1 Where a requirement stipulates the use of a third party, the Supplier is responsible for arranging the attendance of such suppliers. The Supplier is to include those costs in the section which stipulates the attendance.

### Disposal of Waste and Cleanliness

* 1. The Supplier will be expected to clean any working areas, removing and disposing of those component parts that have been replaced. All waste created during this project is to be disposed of in accordance with any and all applicable national and international regulations. In so doing the Supplier will return the vessel to its original state of cleanliness on handover.
  2. Supplier to provide costs for the following;
     1. petrol, diesel, oils and lubricants;
     2. hazardous waste; and
     3. general waste.

### 5.0 Insurance

5.1 Any additional costs that may be incurred by the Supplier due to the undertaking of a bespoke insurance arrangement are to be included in the quote and the Authority is to be notified and then provided with the appropriate documentary proof.

### 6.0 General Provision

6.1 The Supplier will appoint a Project Manager, as a single point of contact, for the duration of this requirement.

6.2 The Supplier is to confirm they will provide support to the external contractors Border Force has engaged with. This will be the provision of manual labour, cranage, tools, removal and disposal of parts if required and will be dealt with under the EW process.

6.3 During the contract period the Supplier shall provide reasonable office accommodation for use by the Authority, to include printing facilities. All costs associated with this provision are to be at included in any quote/bid submitted by the Supplier to the Authority.

6.4 All minor consumable fixings, sealants etc required to carry out this requirement are to be at the expense of the Supplier.

6.5 The Supplier must provide an appropriately secure storage area for any of the vessel’s equipment should anything need to be removed. This storage area should not have a negative impact on the item(s) of the vessel’s equipment that has been removed for storage.

### 7.0 Trials

7.1 Any trials required shall be to prove that the executed work has been carried out satisfactorily and that the various systems can be checked and confirmed as fully and effectively re-commissioned. Other than fuel, all costs related to the operations of test and trials will be the responsibility of the Supplier. This includes the Suppliers personnel provided for sea trials as well as service engineer attendance.

### 8.0 Provide Protective Floor Covering

* 1. Non-slip protective floor covering is to be laid in areas as detailed to below. The protective flooring is to cover the entire area and in passage ways and through routes, the skirt of any vertical surfaces is also to be protectively covered to a height of 0.3 metres.
     1. Office including stair lobby;
     2. Mess deck;
     3. Forward Accommodation Passageway
     4. Lower Accommodation Passageway
     5. Stair way x 3 (MCR to Mess deck, Mess deck to Office & Office to W/H)
     6. MCR
  2. Task content is to include: -
     1. Re-securing, repair or renewal of the material where loose damaged or excessively fouled;
     2. Removal and disposal of the material at the end of the LSA / docking period; and
     3. Localised cleaning of any arising or fixing methods

# Annex B: Inspection, Testing and Certification of Safety Equipment

1. **Requirements for Certification**.
   1. The following items shall be Inspected and Tested where required in accordance with relevant Legislation and Standards as appropriate. All items shall be issued a separate Certificate of Inspection and Testing.
   2. All tasks are to be carried out by an approved examination test house, unless otherwise stated.

1.3 On completion of all work the supplier should provide inspection reports and certification for each separate task in the format detailed in Part 5 Section 8.

1. **Documentation**
   1. Two copies of all certification required for regulatory compliance, or as requested by the Authority, shall be supplied enclosed in clear envelopes within two four-ring ring binders.

2.2 Each binder shall be assembled using the ordering and numbering shown in the Authority’s document SOP 08 (SOP 08 will be issued to the successful Supplier).

2.3 Additionally, an electronic copy of all certificates and test reports shall be forwarded by e-mail to the Authority in .pdf format.

2.4 All certificates and survey reports, as specified and required, are to be provided before the Acceptance meeting.

2.5 All certificates and reports specified and required are to be provided in hard copyfolders to the vessel before departure and electronically emailed to the Authority.

**NB: Although these sets of certifications are to be presented at the Acceptance Meeting, to minimize time spent in checking these during the acceptance meeting prior opportunity shall have been given to the BFOO to check the contents and the index**.

1. **Inspect & Test Tyco MXT200 Fire Detection system**
   1. Inspect and clean the following Fire Detection System Detector Heads: -  
      * 1. 49 x Marine Smoke Heat Detectors
        2. One (1) Heat Detector
        3. One (1) Optical Smoke & Heat detector
   2. Function Test the following: -
      * 1. 15 x Call Points;
        2. Eight (8) x Audible Alarm Units; and
        3. Two (2) x Alarm Indicator beacons.
   3. Inspect the Power Supply Unit (PSU) Batteries and connection: noting expiry date.
   4. Function test the system including secondary power mode.
   5. Update test tally.
   6. Report details to the Border Force Overseeing Officer
2. **Service, Survey & Certify Ships Machinery Space CO2 System**
   1. Service, Survey and Certify the fixed CO2 Extinguishing System for engine room, emergency generator compartment and AzD (Bowthruster) room as follows: -
      1. Disconnect 5 off main CO2 cylinders from the system and insert blanks;
      2. Visually inspection the whole CO2 system;
      3. Blow through discharge pipe work system with clean air at a minimum pressure of at least 20 bar;
      4. Check the contents and levels of the 5 off main 45kg CO2 cylinders and the 3 off pilot cylinders;
      5. Check all flexible hoses for ageing;
      6. Check pilot bottle pressures are greater than 120 Bar and within 10% of one another;
      7. Function check of the pull handle to activate the cylinder valves, close valves and check for leakage;
      8. Fill CO2 manifold with 25 bar from an air test cylinder (Main valves closed or sections sealed)
      9. Close and disconnect the CO2 test cylinder, check thread connections for leakage;
      10. Check operation of pressure gauge; and
      11. Blow through the CO2 pipe work with the CO2 gas in the manifold or clean air with a pressure of a minimum 20 bar.
      12. Report all defects found with work recommendations to the BFOO
   2. On completion, re-connect / re-commission the system.
   3. Present the re-commissioned system to the BFOO
   4. On completion of successful survey, update test tally, issue certificate.
3. **Service, Survey & Certify Fixed Fire Fighting for Magazine**
   1. Service, Survey and Certify the Magazine’s fixed Water Fog - Fire Suppression System as follows: -
      1. Remove 3 x Fog heads and transport to a shoreside facility to clean and individually functionally test with fresh water (at 4 bar) that the fog-heads (nozzles) operate correctly;
      2. Remove, visually inspect and test the correct operation of the discharge / isolating valve located in the Bosun’s locker. whole CO2 system;
      3. Visually inspect and blow through discharge pipe work system with clean air at a minimum pressure of at least 20 bar; and
      4. Reinstall discharge / isolating valve and fog heads (x3) with new gaskets / washers ensuring all components are securely tightened to effectively re-connect / re-commission the system.

**Note: During the process of this maintenance task, to avoid dry salt residues casing corrosion in the pipework or blocking degrading fog head performance it is not intended that the pipework system is subjected to flow from the saltwater fire-main.**

* 1. Report all defects found with work recommendations to the BFOO
  2. Present the re-commissioned system to the BFOO
  3. On completion of successful survey, update test tally, issue certificate.

1. **Service Portable Extinguishers**
   1. Service the following portable hand-held fire extinguishers and certified in accordance with extant regulations: -
      1. 11 x 5Kg CO2
      2. 1 x 2Kg Dry Powder MOB Zodiac Boat
      3. 13 x 6Kg Dry Powder
      4. 2 x 12Kg Dry Powder (Funnels)
      5. 7 x 9 litre AFFF; in E/R
      6. 1 x 9 litre Water
      7. 1 10 litre UPRIM AFFF (engine room)
      8. 1 Off 9 litre water (training);
      9. 1 Off 9 litre AFFF (training).
   2. Inspect & certify six (6) x Fire blankets
   3. Report all defects found, with work recommendations, to the BFOO
2. **Examine, Test & Certify Hoses, Nozzles, etc.,**
   1. The following fire hoses and nozzles are to be examined tested and certified: -
      1. 15m / 38mm hose
         1. Mess Deck Aft c/w Fog Fighter
         2. Wet Room Stbd c/w Jet/Spray
         3. Aft Deck Stbd c/w Jet/Spray
         4. Engine Room Stbd Fwd c/w Fog Fighter
         5. Engine Room Stbd Aft c/w Fog Fighter
         6. Engine Room Port Aft c/w Fog Fighter
         7. Scania Compartment c/w Fog Fighter
         8. Hold Stbd c/w Fog Fighter
         9. Deck Store
      2. 15m / 52mm hose
         1. Wheelhouse Aft c/w Jet/Spray
         2. Foredeck Stbd c/w Jet/Spray
         3. Foredeck Port c/w Jet/Spray
         4. Aft Deck Port c/w Jet/Spray
         5. Outside Hold c/w Jet/Spray
         6. Lower Accom c/w Fog Fighter
         7. Deck Store
         8. Deck Store
      3. 15m / 51mm
         1. Office c/w Fog fighter
      4. 20m / 52mm
         1. Deck Store
      5. 30m / 25mm Rigid Reel Hose
         1. Mess Deck Aft
         2. MCR
         3. Deck Store
      6. 3m x 52mm Hose
         1. Foam Inductor and Branch c/w Pick up
         2. 2 x Drums AFFF 3%
         3. Engine Room Oil Store
      7. 3m x 52mm Hose
         1. Foam Inductor and Branch c/w Pick up
         2. 2 x Drums AFFF 3%
   2. On completion of survey, pressure test the hoses to 5.25 bar.
   3. The six (6) UniJet V12 1.5” Spray Jet fire hose nozzles and their associated instantaneous couplings are to be examined tested and certified.
   4. Report all defects found, to the BFOO
   5. Issue survey & certification documentation
3. **Service & Certify 4 sets Draeger PA 90+ BA Equip & Eight (8) Spare Air Cylinders**
   1. Carry out annual maintenance and certify 4 sets of Draeger PA 90+ Compressed Air Breathing Apparatus and their respective air cylinders.
   2. Carry out the annual maintenance and certify eight (8) spare 9 litre steel BA air cylinders.
   3. Report all defects found, with work recommendations, to the BFOO.
4. **Service & Certify 5 sets Draeger CF10 EEBD**
   1. Carryout annual maintenance and certify five (5) sets of Draeger CF10 EEBDs and their respective air cylinders.
   2. Report all defects found, with work recommendations, to the BFOO.
5. **BAUER Diving Air Compressor Annual Service and Certification**
   1. The BAUER Diving Air Compressor is to be inspected and serviced in accordance with manufacturer’s ‘Annual’ recommendations, summarised as follows: -
      1. Change Intake Filter Cartridge
      2. Check condition of V belt and replace if necessary
      3. Check blow-off pressure of final pressure safety valve
      4. Perform breathing air quality check with Drager Aerotest Simultan test unit or equiv.
      5. Check and clean filter element of intermediate separator
      6. Valve check; and
      7. Oil change mineral oils
      8. Report all Defects found to BFOO
   2. On completion carry out an ‘Air Purity Test’ issue a service report, a certificate of inspection and service and an Air Purity Test certificate and pass one photocopy and one original copy of each to the BFOO.
6. **Inspect, Service & Certify both Port & Starboard Side Life Rafts**
   1. The four (4) RFD 16 Persons SOLAS A Pack Life-rafts are to be removed and dispatched for service.
   2. They are to be serviced at the MCA approved RFD Life-raft agent.
   3. Report all defects found, with work recommendations, to the BFOO
   4. On return they are to be re-installed (in the correct sequence) onboard complete
   5. with correct mausing of retaining shackles, attachment of painter and HRU.
   6. Present re-installed life-raft to the BFOO
   7. An individual certificate of service, inspection and test is required: it is to be issued for each life raft by the Service Agent.
7. **Inspect & Test Crewsaver Inflatable Lifejackets**
   1. The 16 x Survitec Seacrewsader 3D 290N inflatable lifejackets complete with crotch straps and splash hood and McMurdo Smartfind S20 AIS are to be inspected, serviced and tested.
   2. Report all defects found, with work recommendations, to the BFOO
   3. Issue **individual** certificates of inspection and test.
8. **Inspect and Test Immersion Suits**
   1. Remove the twenty (20) Immersion Suits from the vessel for and service, inspection, and test by an approved agent.
   2. Report all immersion suits failing inspection to the Border Force Overseeing Officer with recommendations for replacement or repair.
   3. On completion return the immersion suits to the vessel crew.
9. **Survey & Service EPIRB**
   1. Remove the EPIRB from the vessel and dispatch to the approved Jotron service agent.
   2. In accordance with the guidelines in MSC/Circ.1040 (attached), carryout annual testing of the 406Mhz satellite EPIRB as required by SOLAS regulation IV/15.9 from 01-July-2002.

**Note: The battery has a 4-year life, if it requires replacement this will be managed under the Border Force Emergent Work Procedure.**

* 1. Inspect EPIRB Hydrostatic release expiry date and if less than 1 year remains and renew EPIRB hydrostatic release unit and plastic retaining bolt.
  2. Issue a report with a list of the test results and maintenance performed and pass one photocopy and one original copy to the BFOO

1. **Survey & Certify Bosun’s Chair**
   1. Survey & Certify the Bosun’s Chair
   2. Report all defects found to the BFOO
2. **Survey & Certify Rescue Sling**
   1. Survey & Certify the ‘Helicopter Strop’ in use as a rescue sling
   2. Report all defects found to the BFOO
3. **Survey & Certify Safety Harnesses**
   1. Survey & Certify the following items: -
      1. Two Off Crewsaver Safety Line & self-Locking hooks
      2. Two Off Crewsaver Body Harnesses Serial numbers 10290, 10291
   2. Report all defects found to the BFOO
4. **Survey & Certify Aluminium Divers Ladder**
   1. Thoroughly examine and certify the structure of the ‘Aluminium Divers Ladder.
   2. On completion of successful inspection, provide identity tally and issue certificates of thorough examination.
5. **Survey & Certify 'MARS' Rescue Ladder & Harness**
   1. Thoroughly examine and certify the 'SWL' MARS' Rescue Ladder System including the harness.
   2. On completion of successful inspection, provide identity tally and issue certificates of thorough examination.
6. **Survey & Certify 'SWL' Boarding Boat (RHIB) Entry Ladder**
   1. Thoroughly examine and certify the structure and fitments of the ‘SWL’ Boarding Boat (RHIB) Entry Ladder.
   2. On completion of successful inspection, provide identity tally and issue certificates of thorough examination.
7. **Inspect and Certify Pneumatic Line Throwing Equipment (Restech PLT 165 x 2) & Air Cylinder (x2)**
   1. Remove both (x2) PLT launchers to an approved test house.
   2. Disconnect, Inspect, Pressure Test and Certify the Cylinders.
   3. Re-charge and re-connect the cylinders.
   4. Return PLT launcher to the vessel.
8. **Survey & Certify Mast Access Equipment**
   1. Maintenance Task

**Note:** These tasks are to be carried out by;

Messrs Safety at Height,

1 Pennine View,

Shepley Lane,

Marple,

Stockport

SK6 7JW

TEL 0161 449 5615.

* 1. Survey & Certify the following items of Mast Access Equipment: -
     1. Two Off Body Harnesses;
     2. Two Off Lanyards; and
     3. Two Off Climbing Helmets.
  2. Report all defects found to the BFOO

1. **Survey & Certify Mast, Funnel & Bridge Roof Attachment Rails and Ladders**
   1. Maintenance Task

Note: These tasks are to be carried out by an approved Service Agent specific to the Equipment.

Messrs Safety at Height,

1 Pennine View,

Shepley Lane,

Marple, Stockport

Tel 01614495615

* 1. Survey & Certify the Mast, Funnel & Bridge Roof Safety Equipment Attachment Rails including the following: -
     1. The Mounting brackets for the three attachment rails are in good condition and correctly installed;
     2. All bolt connections are correctly torqued to 40 Nm
     3. The Rail End Stops (2 per rail) are present, in good condition and securely installed.
     4. The central slots of the attachment rails clear of obstructions, dirt or corrosion.
     5. The three ladders (Mast x2 and Funnel x 1) are in good condition securely installed.
     6. Test climbing has taken place with no defects found
     7. Only anti-corrosive, or stainless-steel mounting elements and bolt connections have been used; and
     8. The ‘Traveller(s)’ on each rail moves freely
  2. Report all defects found to the BFOO

1. **Clean, Survey and Mark the Anchor Cable**
   1. Remove both anchor cables from the vessel.
   2. Thoroughly clean the entire cables.
   3. Survey the cables (including swivels, joining shackle and anchor shackle) for continued use.
   4. Report all defects found, to the BFOO
   5. Produce a formal survey report to include Calibration results in tabulated format.
   6. Repaint (and wire) the cable length marks.
   7. Re-stow the cables in the cable locker.
2. **Load Test Anchor Windlass**
   1. Carry out a Dynamic Load Test of the anchor windlass using a horizontal load of 23 KN Nominal, 181 KN holding.
   2. On completion of successful test, update test tally.
   3. Report all defects found, with work recommendations, to the BFOO
3. **Load Test After Mooring Capstan**
   1. Carry out a Dynamic Load Test of the Port After Mooring Capstan to indicated capability.
   2. On completion of successful test, update test tally.
   3. Report all defects found, with work recommendations, to the BFOO
4. **Service 'Ferri' Towing Hook**
   1. Undertake inspection of towing hook components
   2. Carryout an annual service on the towing hook to manufacturer’s recommendations.
   3. Report all Defects and findings to BFOO
   4. Function test all release functions to the satisfaction of the BFOO

1. **Fwd. Palfinger Crane – Annual Inspection, Service & Load Test**
   1. Annual Inspection, Service & Load Test is to be carried out in accordance with the manufacturer’s recommendations, by a Palfinger accredited agent.
   2. Report all defects found, with work recommendations, to the BFOO
   3. On completion load test the crane in accordance with LOLER regulations and manufacturer’s specification.
   4. Issue certificate of service, LOLER Test Certificate and MCA certificate for ship mounted hydraulic cranes.
2. **After Palfinger Crane – Annual Inspection, Service & Load Test**
   1. Annual Inspection, Service & Load Test is to be carried out in accordance with the manufacturer’s recommendations, by a Palfinger accredited agent.
   2. Report all defects found, with work recommendations, to the BFOO
   3. On completion load test the crane in accordance with LOLER regulations and manufacturer’s specification.
   4. Issue certificate of service, LOLER Test Certificate and MCA certificate for ship mounted hydraulic cranes.
3. **Load Test RHIB Cradle Winch**
   1. Carry out a Dynamic Load Test of the RHIB Cradle Launch & Recovery Winch to 1.60 tonnes.
   2. On completion of successful test, update test tally.
   3. Report all defects found, with work recommendations, to the BFOO
4. **Survey & Certify MoB Boat**
   1. The Zodiac 4.5 metre MoB Boat is to be removed and sent for service, survey & certification.
   2. Annual service carried out on the hull structure, tubes, and all regulatory equipment.

**Note: the fire extinguisher is examined and certified within task ‘Service Portable Fire Extinguishers’.**

* 1. Survey & certify the associated four-legged webbing lifting sling.
  2. Survey & certify the four lifting points within the MoB Boat.
  3. Issue service report to the BFOO

1. **Testing of Various sizes of Webbing Lifting Slings**
   1. Examine and Test any slings presented of various dimensions.
   2. Issue service report to the BFOO

1. **Test all Listed Lifting Points**
   1. All lifting points are to be tested as appropriate to endorse the SWL as indicated locally.
   2. On completion provide certification and tally lifting points with test data and paint colour marking as appropriate with the Cutter’s test marking scheme.
   3. Report all defects found, with work recommendations, to the BFOO
2. **PAT Testing**
   1. Pat testing of approximately 200 items.
3. **Check Insulation Readings on Listed Circuits**
   1. Check Insulation readings in accordance with Annex M.
   2. Submit formal tabulation of readings taken.
4. **Port & Starboard Generators - Check Alternator Insulation Readings**
   1. Test and record the insulation readings of the Port Generator’s Alternator windings.
   2. Submit formal tabulation of readings taken.
5. **Hot Water Boiler - Annual Service, including replace PRVs as necessary**

**Note: This service must be carried out by an approved Regulatory service engineer.**

* 1. Carry out the annual service to the LAKA ZK 50-160 Oil fired Boiler.
  2. Remove the burner access door and clean the burner / boiler ‘DO NOT USE WATER’
  3. Check thermal insulation of the cleaning door for integrity and sealing.
  4. Remove and check the setting of the safety valve or replace as necessary
  5. Carry out a function test of the boiler to the satisfaction of the Border Force Chief Engineer.
  6. Check both oil burners are within the following limits: -
     1. Soot index of the flue gas is between 0 – 1; and
     2. CO2 percentage is 11 -13.
  7. Issue test certificate of flue gas readings.
  8. Report all findings to the Border Force Overseeing Officer

1. **Super-Chlorinate & Provide Certificate of Potability**
   1. Super-Chlorinate both fresh water tanks
   2. Press the tanks up.
   3. Run water through ALL taps, hoses and shower heads: ensuring that the super-Chlorination concentrate levels are monitored and maintained.
   4. De-chlorinate the freshwater tank: run through ALL taps, hoses and shower heads.
   5. Drain down the system & the tank.
   6. Re-fill up FW tank, take water samples and submit the water samples for analysis of pot ability.
   7. Provide a certificate of potability upon completion of satisfactory test.
   8. Report any failures immediately to the BFOO

**Note 1: Failure will require re-super-chlorination and test until acceptable test standards are achieved.**

**Note 2 :- Tasks completion should be planned such that certificate of potability is provided in plenty of time before the vessel leaves the shipyard.**

1. **Inspect & Carryout Compass Swing**
   1. Inspect the Compass Binnacle mounted on the forward Wheelhouse top.
   2. Carry out a compass swing on the binnacle mounted Lilley & Gillie SR-4 magnetic compasses on the Bridge roof.

**Note: The compass swing is to be carried as early as possible after the completion of the annual maintenance period: at the convenience of the vessels commander, when the vessel is fully operational with all equipment embarked.**

* 1. On completion of the compass swing issue a deviation card for the compass to the onboard crew and pass copies to the BFOO

1. **Annual Service Oxygen Therapy Set**
   1. The Oxygen Therapy Set is to be sent for its annual service complete with both oxygen bottles
   2. Inclusive within the service is to be the inspection, pressure testing and certification of the oxygen bottles (cylinders).

**Note: This is to include hydraulic pressure testing of the cylinders every five (5) years.**

* 1. Re-charge the oxygen bottles (cylinders).
  2. Return Oxygen Therapy Set with both bottles (cylinders).

1. **Service & Test or Replace PRVs for Main Engine Starting Reservoirs (x 2)**
   1. Replace Start Air Reservoir PRVs (x 2) set @ 30 bar.
   2. Provide two copies of Certification of pressure setting specific to each PRV.
2. **Service & Test or Replace PRVs for Main Engine Starters (x 2)**
   1. Replace Start Air Reservoir PRVs (x 2) set @ 15 bar.
   2. Provide two copies of Certification of pressure setting specific to each PRV.
3. **Service & Test or Replace PRV for Service Air Receiver**
   1. Replace Start Air Reservoir PRVs (x 2) set @ 12 bar.
   2. Provide two copies of Certification of pressure setting for the PRV
4. **Service & Test or Replace PRV’s for the Atlas Copco Air Compressors x2 with 2 PRV’s on each**
   1. Each has 2 x PRV’s. One set at 7 bar the other at 33 bar.
   2. Provide two copies of Certification of pressure

# Annex C: Vessel Maintenance Tasks

1. **Clean and Survey Coatings / Structure of Chain Locker**
   1. Open the chain locker’s access hatches.
   2. Ventilate and obtain a gas free certificate.
   3. Range out both anchors and cables to allow access.
   4. Thoroughly clean the chain locker.
   5. As necessary move cable bins / protective cladding.
   6. Along with the International Paint Representative carry out a comprehensive survey / inspection of the chain lockers’ structure and paint coatings. Submit survey / inspection report and agree any work to be carried out with BFOO
   7. On completion of any repairs to structure and coating, re-secure cable bins / protective cladding and present space to the BFOO
   8. Verify function of chain locker drain and correct operation of closure valve.
   9. Check operation of semi rotary pump.
2. **Port Fresh Water Tank (MV11P) Open, Clean & Survey Coatings / Structure**
   1. Open the Port Fresh Water Tank (MV11P), ventilate and obtain a gas free certificate.
   2. Thoroughly clean with fresh water and drain arisings.
   3. Along with the International Paint Representative carry out a comprehensive inspection of the tanks paint structure. Agree any work to be carried out with BFOO
   4. Assure all rags and arisings have been removed.
   5. On completion of any coating repairs, present the tank to the BFOO.
   6. Immediately on completion of inspection the manholes are to be re-fitted (using new gaskets).
   7. When manhole covers are in place a pressure test to 1.5 psi.

1. **Starboard Fresh Water Tank (MV11P) Open, Clean & Survey Coatings / Structure**
   1. Open the Starboard Fresh Water Tank (MV11S), ventilate and obtain a gas free certificate.
   2. Thoroughly clean with fresh water and drain arisings.
   3. Along with the International Paint Representative carry out a comprehensive inspection of the tanks paint structure. Agree any work to be carried out with Border Force Overseeing Officer
   4. Assure all rags and arisings have been removed
   5. On completion of any coating repairs, present the tank to the BFOO. Immediately on completion of inspection the manholes are to be re-fitted (using new gaskets).
   6. When manhole covers are in place a pressure test to 1.5 psi.
2. **Touch-up Painting**
   1. Provision of 120 hours labour to rub-down, clean, degrease and re-paint external paintwork as directed by the BFOO
   2. Painting is to be carried out in accordance with onboard International Paint Repair Specification.

**Note: International Paint products to complete this task to the repair specification are to be supplied by the Contractor.**

1. **Check both PME and SME Engine Resilient Mounts**
   1. The 4 off Port Main Engine Resilient Mounts are to be: -
   2. Visually inspected for failure of the rubber insert;
   3. Dimensional check of all four engine mounts are to be made to ensure the requisite loaded heights are in accordance with the manufacturer’s recommendations of 132.5mm Nominal
   4. The main holding down bolts are checked to ensure they remain torqued to 220Nm
   5. The engine mount fixing bolts are checked to ensure they remain torqued to 72 Nm; and
   6. The buffer screw mounting height is verified as correct in accordance with the manufacturer’s recommendations of 3.1mm
   7. Cushymount Mini ‘K’ Trelleborg Part Number 17/1921: Installation details
      1. Fitting Bolt size & Thread Pitch M16 x 2
      2. Recommended Tightening Torque 72Nm
      3. Test Load – Marked on Mounting 50 kN
      4. Buffer Gap Measured Horizontally 3.1mm
      5. Washer Size M30
      6. Centre Bolt Tightening Torque 220Nm
   8. Provide a written report on the engine mount heights and condition to the BFOO
2. **Inspect both PME and SME Vulkan Coupling**
   1. Flywheel coupling guards are to be removed.
   2. The coupling is to be inspected for damage, excessive torque wear, mis-alignment etc., as follows: -
   3. Inspection to be carried out by a Vulkan coupling service engineer or an approved agent. Arrangements for the Vulkan service agent inspection can be made with: -

Vulkan Industries Ltd,

Archer Road,

Armytage Road Industrial Estate,

Brighouse,

West Yorkshire,

HD6 1XF

Tel 01484 712273

Fax 01484 721376

* 1. This task requires the Carden shafts to be removed.
  2. Advise the Border Force Overseeing Officer of any defects / evidence of degradation found giving them the opportunity to sight.
  3. Replace guards on completion of all related work.
  4. On completion Vulkan Service Engineer is to provide a written report on all findings.

1. **Service Atlas Copco LT 75 Start Air Compressors**
   1. The Atlas Copco Start Air compressors are to be serviced in accordance with the manufacturer’s recommendations.
   2. Provide a written report on condition found to the BFOO.
2. **Change the Lubricating Oil and Filters on both P & S Gearboxes**
   1. Remove the lub oil safely and iaw with current regulations for waste oil disposal.
   2. Sump of each GB to be inspected and cleaned with a report of any debris/discolouration.
   3. Recharge with Border Force supply Mobil 600 XP 100 – approximately 200 ltrs per GB.
   4. Change 3 filters per GB – Border Force supply and dispose of used filters as above.
   5. All filters are to be primed ready for use.
   6. Report to BFOO on completion.

**NOTE – Gearboxes have L/O heaters which must be isolated before work.**

1. **Open the P & S Gearboxes for Inspection of the Gearwheels**
   1. This service is to be completed by an approved marine service agent.
   2. The service engineer is to carry out the following: -
      1. Annual external inspection; and
      2. Open the Inspection plates and carryout an internal inspection of the pinions and gearwheels in accordance with Moventas maintenance service routines.
   3. On completion, an accredited Service Report is to be provided to the BFOO.
2. **Pressure test Gearboxes' Danfoss Sensors**
   1. In conjunction with Task P212.01.002 Annual Inspection of Gearboxes by Moventas Service agent, test and adjust (as necessary) all Danfoss Sensors on both gearboxes.
   2. Check the Automatic temperature control of the gearbox
   3. Check the automatic shutting down of the main engine if insufficient lubricating oil pressure
   4. Operation of remote-control indicators
   5. Alarm devices
   6. Automatic switch over of pumps
   7. Provide an engineer’s report on all results and settings.
3. **Clean & Inspect Heat exchangers (P&S)**
   1. Drain down the system, remove the Alfa Laval Gearbox Plate Coolers and take to a shore side workshop.
   2. As directed open one section of the sea water cooling supply or return piping immediately adjacent to the cooler, for inspection by the BFOO.
   3. Strip down the plate coolers and digitally photograph the condition of the plates and allow the BFOO an opportunity to sight before cleaning is commenced.
   4. Thoroughly clean and inspect the cooler plates.
   5. Re-assemble the Plate Coolers using all new gaskets and seals and pressure test.
   6. Report all defects found to the BFOO.
   7. Re-install the plate coolers on each Gearbox.
4. **Check Steering Gear Electrical Installation**
   1. Carry out visual and physical inspection of the Port & Starboard steering Gear installations checking for: -
      1. Hydraulic leaks;
      2. Wear on Hydraulic Hoses;
      3. Tightness / security of linkages & connection; and
      4. Inspect tank anti-vibration mounts.

**Note: there are two electronically linked Steering Gear installations and each installation has two motors and consequently two starters.**

* 1. Clean Inspect & Test Four (4) Motors as follows: -
     1. Clean the motor and the interior of the terminal box. Inspect the wiring, components and insulated surfaces for damage, deterioration and overheating: tighten electrical connections as necessary;
     2. Inspect earth bonding arrangements, measure & record earth bonding continuity resistance. Reading should not be greater than 0.05 Ohm;
     3. Measure & record insulation resistance. Minimum acceptable reading is 10 Mega Ohm; and
     4. Function test the motor and assess the condition of the bearings.
  2. Clean, Inspect & Test Four (4) Starters as follows: -
     1. Open the panels and clean the interior using a soft brush and vacuum cleaner;
     2. Inspect the interior for damage, deterioration and overheating of the cables and components;
     3. Check electrical connections and tighten as necessary;
     4. Inspect contacts for wear and renew as necessary;
     5. Inspect earth bonding arrangements, measure & record earth bonding continuity resistance. Reading should not be greater than 0.05 Ohm; and
     6. Test current overload devices and check overload alarms.
     7. On completion of all work, restore power supply and function test the foot switch.
     8. Supply written condition report

1. **Scania D11 Diesel Engine & ZF Gearbox: Annual maintenance**
   1. Check the condition of the flexible coupling element and the mounting bolts.
   2. Change the lubricating Oil and filter.
   3. Clean the lube oil cleaner.
   4. Replace the zinc anodes.
   5. Check condition of the ‘keel cooling’ water pump impellor;
   6. Drain down the ZF gearbox lube oil;
   7. Change the ZF gearbox lube oil filter;
   8. Fill the ZF gearbox with Castrol MHP 153
2. **Azimuth Drive HRP Unit Annual Service & Check**
   1. Carefully inspect the Holland Roer propleller HRP 310-50 unit checking condition of:
      1. Hydraulic hoses:
      2. Security of protective cages; and
      3. Indication of any damage or defect.
      4. With the Scania engine running carry out a function test, checking locally for leaks or indication of other defects when operated.
      5. Check operation of thermostat in inclusion of the keel cooling system at the correct temperature.
      6. Thoroughly clean externally and lubricate / grease in accordance with the manufacturer’s recommendations.

1. **Check Azimuth Drive Carden Drive Shaft**
   1. Check the condition and shaft tolerance of the U/J flexible joints components and check the tolerance of the mounting bolts.
   2. Check the torque of the mounting bolts.
   3. Inspect and measure the Carden shaft spline clearance.
   4. Provide a report giving results of measurements.
2. **Clean and inspect GS Pump Motor**
   1. Clean Inspect & Test GS Pump Motor: -
      1. Isolate power supply;
      2. Clean motor and the interior of the terminal box. Inspect the wiring, components and insulated surfaces for damage, deterioration and overheating: tighten electrical connections as necessary;
      3. Inspect earth bonding arrangements and measure earth bonding continuity resistance. Reading should not be greater than 0.05 Ohms.
      4. Measure insulation resistance. Reading should be greater than 10 Mega Ohms
      5. Restore power supply and check the anti-condensation heater is functioning correctly.
      6. Function test the motor and assess the condition of the bearings
      7. Report all defects found, with work recommendations, to the BFOO
3. **Clean and inspect Bilge Pump Motor**
   1. Clean Inspect & Test Bilge Pump Motor;
   2. Inspect earth bonding arrangements and measure earth bonding continuity resistance. Reading should not be greater than 0.05 Ohms;
   3. Measure insulation resistance. Reading should be greater than 10 Mega Ohms:
   4. Restore power supply and check the anti-condensation heater is functioning correctly; and
   5. Function test the motor and assess the condition of the bearings

* 1. Report all defects found, with work recommendations, to the BFOO.

1. **Clean and inspect GS Pump Starter**
   1. Clean Inspect and Test GS Pump Starter;
   2. Inspect earth bonding arrangements and measure earth bonding continuity. Reading should not be greater than 0.05 Ohms;
   3. Test current overload devices; and
   4. Restore power supply and function test the Starter; and
   5. Check remote operation

* 1. Report all defects found, with work recommendations, to the BFOO

1. **Clean and Inspect Bilge Pump Starter**
   1. Clean Inspect and Test Bilge Pump Starter;
   2. Inspect earth bonding arrangements and measure earth bonding continuity. Reading should not be greater than 0.05 Ohms;
   3. Test current overload devices; and
   4. Restore power supply and function test the Starter; and
   5. Check remote operation

* 1. Report all defects found, with work recommendations, to the BFOO

1. **Service Emergency Fire-fighting & Salvage Pump's Engine & Pump**
   1. Drain Lube oil charge and dispose.
   2. Drain contents of fuel tank (petrol) and dispose.
   3. Carry out service on the unit’s engine including: -
      1. Change Lube Oil;
      2. Change Lube Oil Filter;
      3. Change / clean Fuel Filter;
      4. Change Air Filter; and
      5. Replace spark plugs
      6. Disassemble and carry out visual inspection of the pump impellor and mechanical seal, re-assemble using new gaskets.
      7. Fill the fuel tank and function test the engine and pump unit working on load for 30 minutes.
2. **Service ‘Mattei’ Service Air Compressor**
   1. Disconnect and isolate electrical supply
   2. Carry out a full 12-month service, to include: -
      1. Replacement of the air filter,
      2. Change the lube oil with Rotoroil 8000 F2 oil
      3. Replace the oil return valves
      4. Replace the separator condensate filter
      5. Check all wiring and terminal connections
      6. Clean the oil radiator and compressor air final cooler
      7. Check automatic system condensate valve in sewage plant room
      8. Re-connect electrical supplies
   3. On completion of re-commissioning function test.
3. **Ultrapac 2000 Air Dryer - Service & Replace Desiccant**
   1. Carry out Annual service to the manufacturer’s recommendations including replacement of desiccant.
   2. Air Dryer Technical details as follows: -
      1. Dryer Type – Ultrapac 200
      2. Serial No – 1150958 / 1
      3. Flow – Max 15m3/h
      4. Year of Man – 2001
      5. Pre-filter element – MF 04/10
      6. Size – 0015
      7. Voltage – 230 V 50-60 Hz
      8. Working Pressure – min 4 bar/max 16 bar
      9. Working Temp – 4 degrees C / Max 50 degrees C
      10. After-filter Element – PE 04/10
   3. Report all findings to the BFOO
   4. Complete Formal Service Report, to include condition report, any defects found and life span of desiccant.
4. **FW Accumulator Internal Insp.& Test to 6.0 bar + Tally + Cert.**
   1. Disconnect and drain the hydrophore.
   2. Open the inspection hatch clean as necessary
   3. Present the cleaned tank to the BFOO
   4. Re-seal inspection hatch replacing seal gasket as necessary.
   5. Refill and test to 4.0 bar: tally and provide two copies of the test certification on completion. The BFOO is to be present for this test.
   6. Re-commission to the correct operating pressure and function test.
5. **Overhaul Waste Water Discharge Pump (Air Operated)**
   1. Remove and Inspect Balls and Valve Seats as follows: -
      1. Remove Outlet and Inlet manifolds, balls, valve seats and O rings;
      2. Inspect and measure the balls, valve seats and O rings and replace components outside of the usable ranges (for NDP-50);
      3. Replace PTFE O rings regardless of condition, for O rings (other than PTFE) - replace if worn or cracked; and
      4. Re-assemble in reverse order, the tightening torque for the manifold retainer bolts is 20 Nm.
   2. Remove and Inspect Diaphragm and Centre Rods as follows: -
      1. Remove the balls and valve seats etc.
      2. Remove the diaphragm and centre rod. (BA\_BS\_BF Types);
      3. Inspect diaphragm and centre rod. Replace the diaphragm if worn out or damaged or diaphragm life is exceeded. Replace the centre rod if measured diameter is outside the usable range; and
      4. Re-assemble in reverse order. (B\_C, B\_N, B\_E, B\_V, B\_H, B\_S Types). The tightening torque for the centre rod is 60 N-m and for the out chambers 40 Nm.
   3. Remove and Inspect Throat Bearing and Pilot Valve as follows: -
      1. Remove the diaphragm and centre rod as per .02 (above);
      2. Remove throat bearing and pilot Valve as per section 6.1;
      3. Inspect throat bearing, O ring and pilot valve. Replace the throat bearing if the measured inside diameter is outside the usable range. Replace the O ring if worn out or cracked. Replace pilot valve if worn out or cracked;
      4. Re-assemble in reverse order. The tightening torque for the air chamber retainer bolts is 20 Nm; and
      5. Retighten Tie rods
6. **Remove, Clean & Overhaul Alpha Laval M6-MFM Plate Cooler**
   1. Remove the Alpha Laval ‘M6-MFM’ Air Conditioning System Plate Cooler / Heat Exchanger.
   2. Thoroughly clean, carry out a full overhaul and rebuild on completion using new gaskets.
   3. On completion of the overhaul, carry out a witnessed pressure test and issue test certificate.
   4. Re-install and function test
7. **Clean AC Compressors (x 2)**
   1. To be carried out by an approved Marine Air conditioning specialist.
   2. Clean AC Compressors (x2) and carry out full function test of the system, ensuring system is operating in design parameters.
   3. Provide a written report of findings and work carried to be submitted in both hard copy and an electronic format Acrobat (.pdf).
8. **Check & Replace AC Drier Filling**
   1. To be carried out by an approved Marine Air conditioning specialist.
   2. Replace the AC Drier Filling.
   3. Check condition of ventilation Fan Drive Vee belts.
   4. Adjust the ventilation fan drive belt tension.
9. **Re-charge AC Expansion tanks (x 3)**
   1. Disconnect and remove 3 Off various size expansion tanks.
   2. Carry out pressure test of the expansion tanks.
   3. Renew the PRV.
   4. Re-install the expansion tanks.
10. **Hydraulic System - Clean Inspect & Test Starters**
    1. Clean Inspect and Test Hydraulic System Pump Starters: -
       1. Isolate power supply;
       2. Open the starter panel and clean the interior using a soft brush and vacuum cleaner;
       3. Inspect the interior for damage, deterioration and overheating of the cables and components. Check electrical connections and tighten as necessary;
       4. Inspect contacts for wear and renew as necessary;
       5. Check internal condition of the trigger control unit;
       6. Inspect earth bonding arrangements and measure earth bonding continuity. Reading should not be greater than 0.05 Ohms;
       7. Test current overload devices; and
       8. Restore power supply and function test the Starter; and
       9. Check remote operation

* 1. Report all defects found, with work recommendations, to the BFOO

1. **Hydraulic System – Clean, Inspect & Test Pump’s Motors**
   1. Clean Inspect & Test Hydraulic Pump Motors: -
      1. Isolate power supply;
      2. Clean motor and the interior of the terminal box. Inspect the wiring, components and insulated surfaces for damage, deterioration and overheating: tighten electrical connections as necessary;
      3. Inspect earth bonding arrangements and measure earth bonding continuity resistance. Reading should not be greater than 0.05 Ohms.
      4. Measure insulation resistance. Reading should be greater than 10 Mega Ohms
      5. Restore power supply and check the anti-condensation heater is functioning correctly.
      6. Function test the motor and assess the condition of the bearings

* 1. Report all defects found, with work recommendations, to the BFOO

1. **Hydraulic System – Clean & Inspect Air Cooling Heat Exchanger Radiator**
   1. Disconnect the heat exchanger, blank off both hydraulic oil and cooling water pipes.
   2. Clean and degrease.
   3. Re-install and function test
   4. Report all defects found, with work recommendations, to the BFOO
   5. Carry out a pressure test to 5 bar in presence of the BFOO.

1. **Replace Hydraulic System Filters x 3**
   1. Isolate the system, replace filter elements in the three filter housings on the Hydraulic power pack as follows: -
      1. Hydac Air filter BFP7G10w1.x
      2. Hydac Return line filter RFMBN/HC330G10b1.X/-G-BA
      3. Hydac Pressure line filter DFBN/HC160G10B1.X/-B6
   2. Report all Defects found to BFOO
   3. On completion re-commission and carryout, a function test on the system
2. **Emergency Generator - Check Alternator Insulation Reading & Function Test Anti-Condensation Heater**
   1. Test and record the insulation readings of the Emergency Generator’s Alternator windings.
   2. Function check generator anti-condensation heating system is working, record voltage and amperage at the heating elements.
   3. Submit formal tabulation of readings taken.
3. **Inspect & Test Shore Power Supply & Export installation & Cables**
   1. Inspect the physical condition of the Shore Power Supply Connection Box and the Shore Power Supply Cable for damage / serviceability with special attention to the plugs and sockets.
   2. For the Shore Power Supply Connection Installation Box and the Shore Power Supply Cable check and record the following: -
      1. Insulation Reading; and
      2. Earth Lead Continuity Check.
      3. For the Power Export Connection Installation Box and the Power Export Cable check and record the following: -
      4. Insulation Reading; and
      5. Earth Lead Continuity Check.
      6. Check condition, operation and insulation readings of the motor driven shore supply cable stowage reel.
      7. Report details to the BFOO
4. **Check Earth Bonding of Shafts, Rudders & Azimuth Drive**
   1. Inspect the physical condition of the bushes on both propeller shaft earthing arrangement, measure and record in Ohms the earth bonding continuity resistance between each shaft and the Ship’s structure.
   2. Measure and record in Ohms the earth bonding continuity resistance between each rudder stocks and the Ship's structure.
   3. Measure and record in Ohms the earth bonding continuity resistance between the Azimuth Drive Thruster Unit and the Ship's structure.
   4. Report all defects found, to the BFOO
5. **Inspect Main & Emergency Batteries**
   1. Location:
      1. Engine Room 2 x Generator Main Sets
      2. Scania Bow Thruster engine
      3. Wheelhouse Deck Forward of Bridge Port Side Emergency Set
      4. Emergency generator
      5. Non-GMDSS Radios set (2 x 12v 200/220Ah) (located in battery room on starboard side of superstructure)
      6. Emergency/General Bridge Systems set (2 x 12v 200/220Ah) (located in battery room on starboard side of superstructure)

* 1. Maintenance Task
  2. Clean the Battery Sets and inspect for damage, corrosion and electrolyte leaks.
  3. Clean connectors / terminals and coat with no-oxide grease (petroleum jelly).
  4. Check Battery clamping/securing arrangements.
  5. Carry out a capacity test.
  6. Report the results of the test and all defects found to the BFOO
  7. On completion of all approved work, ensure the Batteries are fully charged and restored to the normal operational state.
  8. Measure and record, as a benchmark, all cell voltages, battery temperatures and float charge currents.

1. **Inspect & Test 24v DC Switchboard**
   1. In accordance with Marine Industry Practice, thoroughly clean, visually inspect, and test the following 24vDC switchboards: -
      1. MCR;
      2. MER;
      3. Tech Room; and
      4. Wheelhouse.
   2. Report all defects found with work recommendations to the BFOO
   3. Submit formal tabulation of insulation readings taken.
2. **Anchor Windlass Overhaul**
   1. Strip down the external component parts of the windlass
   2. Clean and de-grease all components.
   3. 03 Carry out dimensional checks of shafts and bearings etc

* 1. 04 Inspect gearwheels and provide report on condition found.
  2. Report all defects found, to the BFOO
  3. Renew the Brake bands.
  4. Re-assemble and re-establish the protective paint coatings, in accordance with the International Paints’ repair specification.
  5. On completion, check chain stowage arrangements and function test the unit (veering and hoisting) in an exercise where the anchor chains are re-stowed.

1. **Renew Anchor Windlass Gearbox Oil, Grease & Inspect**
   1. Drain down the oil in the gearbox and refill with Mobile 600 XP68.
   2. Lubricate all grease nipples.
   3. Grease brake rods.
   4. Grease swivel points and threaded rods.
   5. Inspect each brake band condition.
   6. Report all defects found, with work recommendations, to the BFOO
2. **Aft Deck Mooring Capstan Change Gearbox Oil**
   1. The Aft Mooring Capstan gearbox lubricating oil is to be renewed with Mobile XP220
   2. Report all defects found, with work recommendations, to the BFOO

1. **Survey & Refurbish Lifebuoys**
   1. Renew integral polypropylene cordage, reflective tape and operator identity lettering on all twelve (12) of the Cutter’s lifebuoys, as appropriate
   2. Lettering on lifebuoys to read: -
      1. HMC PROTECTOR
      2. UK BORDER FORCE
   3. On completion present the lifebuoys to the Border Force Overseeing Officer for acceptance and re-place in their respective stowage’s.
   4. Renew lifelines as appropriate.
2. **Survey & Certify Perry Rescue Lines on Lifebuoys**
   1. Thoroughly examine condition and continued usability of the Perry Rescue Lines on Lifebuoys.
   2. Report all defect found to the BFOO
3. **Service MoB Boat 25hp Outboard Engine**
   1. The Yamaha 25 hp L/S (Long shaft) outboard engine is to be removed from the MoB Boat and sent for service.
   2. Annual service to be carried out by an approved Yamaha service agent.
   3. On return the outboard is to be re-installed on the MoB Boat.
   4. A service report is to be provided to the BFOO
4. **Sauna - Clean, Service & Check Electrical Insulation**

**Note: Task to be carried out by a company specialising in maintenance of**

**Sauna installations**.

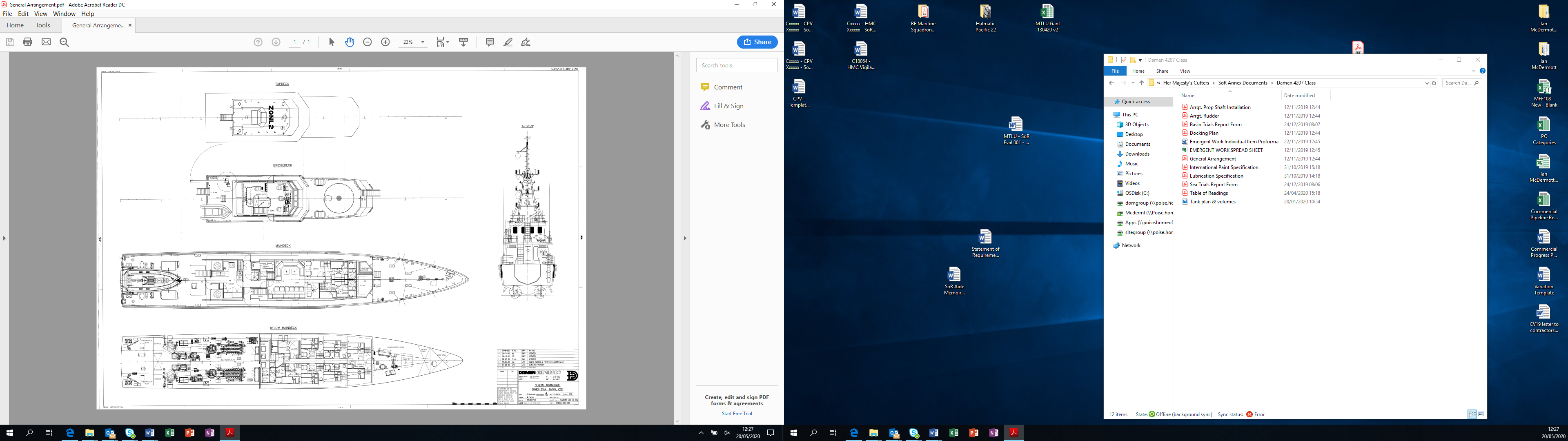
* 1. Thoroughly inspect fitments (excluding the sauna stove) internal lining, seating, door and door seal for damage and degradation.
  2. Submit a report of all defects found, to the BFOO
  3. After completion of all repair work (treated as Emergent work) carryout deep cleaning and disinfection of all sauna timber surfaces.
  4. Check Sauna Stove electrical connections and insulation.
  5. Report all defects found, to the BFOO
  6. Provide a service report.

1. **Overhaul Raised Coaming Watertight Hatches**
   1. **Overhaul Listed Hatches as follows: -**
      1. **Weather deck Forward**: **Fore Peak Access**; Inside of the raised section needs to be stripped and repainted.
      2. **Port & Stbd Chain Locker Vertically positioned Access Hatches**; Both internal surfaces need to be cleaned and repainted.
      3. **Weather deck Forwar**d**: Mission Hold Access / Escape**; Inside of the raised section needs to be cleaned and painted. Replace Pop Rivits missing from the inside cover for the hatch.
      4. **Weather deck Forward**: **Mission Hold Cargo Hatch**; New seal needed for both doors & the middle section. External centre section needs to be stripped and painted due to corrosion patches all over. All hinge pins need to be checked. Dog clips need to be checked for alignment and size to aid in securing it down properly. Cleats around the raised section need to be replaced due to being badly corroded. Both fwd locking bars (internal) need to be checked for alignment etc as the locking collars do not lock down fully without force.
      5. **Weather deck Aft: MER Access / Escape;** Seal needs to be checked and possibly packed out in a couple of sections. Hinges need to be cleaned and painted.
      6. **Weather deck Aft: Port After Cargo Hatch**; Seal needs to be packed out in places, needs cleaned and painted. Alignment of dog and clamp needs checked.
      7. **Weather deck Aft: Access / Escape hatch inset in Port After Cargo Hatch**; Dogs need removed and cleaned.
      8. **Weather deck Aft: Starboard After Cargo Hatch**; Seal needs packing in a couple of places, dogs need cleaned and alignment checked, 1 (aft outboard) dog handle needs inspected as found damaged, possible replacement required.
      9. **Weather deck Aft: Access / Escape hatch inset in Starboard After Cargo Hatch**; Dogs need to be removed and cleaned.
      10. **Weather deck Aft: Port Steering Compartment Access / Escape**; Raised section will need to be shot blasted back (especially outboard side (restricted space to try and get hands in) and repainted.
      11. **Weather deck Aft: Starboard Steering Compartment Access / Escape;** Raised section will need to be shot blasted back (especially outboard side (restricted space to try and get hands in) and repainted.
      12. **Mission Hold Port: Sewage Plant Space Access / Escape**. Seal needs packing in 1 section.
   2. Check all clips for correct operation. Remove and dismantle seized clips, make good defects and lubricate with Castrol Spheerol EPL 2. All dogs need to be removed and cleaned up, greased and refitted.
   3. Remove hinge pins and inspect for wear; renew if necessary. All need to be checked properly.
   4. Lubricate all moving parts and charge grease nipples with Castrol Spheerol EPL2.
   5. Replace seals on forward Mission hold hatch.
   6. All hatches need to have the sealing faces cleaned and squared off properly and then painted.

# Annex D: Modifications and Defect Rectification

Intentionally Left Blank

# Annex E: General Arrangements



# Annex F: Vessel Details

Length O.A: 42.80m

Breadth O.A: 6.95m

Depth mid: 3.77m

Summer Draught: 2.15m (to base)

Displacement: 251.1 tons

Deadweight: 69.3 tons

Gross Tonnage: 235 tons

Built to Lloyds: 100A1 SCC

# Annex G: Emergent Work Individual Item Proforma

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Emergent Work (EW) Individual Item Proforma** | | | | Border Force_2592_AW | |
| **EMERGENT WORK ITEM No: C19529/** | | | | | |
| ***Description*** | | | | | |
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| **Signed, BFOO:** | | **Date:** | | | |
| **PART I: By Supplier** | | | | | |
| **The above item is accepted as a genuine Emergent work item.** | | | | | |
| **Our Firm Price is\*Δ**  **Our Realistic Estimate is\*Δ** | **£** | | | | |
| **Signed:** | **Position:** | | | | |
| **Dated:** | | | | |
| **TIME PENALTY (if any) ..................................................................... The completion date of the contract\* will/will not be affected by this item.** | | | | | |
| **PART II: By Border Force Overseeing Officer** | | | | | |
| **It is agreed that this is a genuine emergent work item and authority is given for the work to be undertaken.** | | | | | |
| **The Above Firm Price/Realistic Estimate\* of £** | | | **ACCEPTED** | | **REJECTED** |
| **Signed:** | | | **Date:** | | |
| **Notes:**  1 \* Delete as required  2 Δ If the costing of an EW task, upon further examination, is projected to vary by ± 10%, the quote must be re-authorised by the BFOO  3 All interactions pertaining to Emergent Work are to be carried out strictly in accordance with Pt. 5, § 8.0. | | | | | |

# Annex H: Emergent Work Item Record Spreadsheet

|  |  |  |  |
| --- | --- | --- | --- |
| **HMC PROTECTOR** | | Border Force_2592_AW | |
| **Supplier:** |  | | |
| **Contract Number:** | **C19529/** | | |
| **MTLU BFOO:** |  | | |
| **EMERGENT WORK NUMBER** | **JOB DESCRIPTION** | | **%**  **COMP** |
| C19529/001 |  | |  |
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# Annex I: Handover Certificate

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| --- | --- | --- | --- | --- | --- | --- |
| **HMC PROTECTOR** | | | | | Border Force_2592_AW | |
| **This Handover Certificate is to be duly signed by a representative of the Authority and the Supplier should the aforenamed vessel, for whatever reason, be required to be lifted from the water and moved to a berth on land.** | | | | | | |
| **Immediately upon signing this Handover Certificate by the Supplier, the responsibility and safe custody of HMC PROTECTOR is accepted by the Supplier and the responsibility, safe custody and seaworthiness of the vessel will always thereafter remain with the Supplier until issued with an Authority-signed Acceptance Certificate.** | | | | | | |
| **Statement of Condition issued by (BFOO):** | | | | | | |
| **HMC PROTECTOR is in a safe and stable condition. All systems have been shut down, (except those as listed below, commensurate with the systems as required by the Supplier).** | | | | | | |
|  | | | | | | |
| **Tank Contents** | | | | | | |
| **Fuel** |  | | **litres** |  | |  |
| **Fresh water** |  | | **litres** |  | |  |
| **Black Water Tank** |  | | **litres** |  | |  |
| **Systems Still Operational** | | | | | | |
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| **Signed:** | | **Signed:** | | | | |
| **For and on Behalf of the Supplier:** | | **For and on Behalf of the Authority:** | | | | |
| **Name:** | | **Name:** | | | | |
| **Position / Capacity:** | | **Position / Capacity** | | | | |

# Annex J: Acceptance Certificate

|  |  |  |
| --- | --- | --- |
| **Acceptance Certificate** | | Border Force_2592_AW |
| PART I: to be completed by Supplier | | |
| **HMC PROTECTOR** | | |
| HMC PROTECTOR having been removed from the water to perform maintenance tasks associated with contract C19529 and having been successfully returned to the water and re-floated in a seaworthy condition, and to the satisfaction of the BFOO, is this day offered for acceptance by Border Force. | | |
| **Signed:** | For and on Behalf of the Supplier: | |
| **Print Name:** | Date: | |
| PART II: to be completed by The Authority | | |
| I attended the re-floating of HMC PROTECTOR and have satisfied myself that all systems, machinery and equipment are working satisfactorily. I have inspected the Cutter and consider she is in a condition suitable for return to the Authority and is hereby accepted. | | |
| By Vessel Commander: | | |
| **Signed:** | Print Name / Post: | |
| By Border Force Overseeing Officer: | | |
| **Signed:** | Border Force Overseeing Officer | |
| **Print Name:** | Date: | |
| PART III: Notes | | |
|  | | |
| Distribution  Original - Retained by the Supplier  Copies to - Border Force Overseeing Officer | | |

# Annex K: Project Completion Certificate

|  |  |  |
| --- | --- | --- |
| **Project Completion Certificate** | | Border Force_2592_AW |
| PART I: to be completed by Supplier | | |
| **HMC PROTECTOR** | | |
| HMC PROTECTOR, having completed contract C19529 to the satisfaction of the Authority and having successfully completed any applicable trials and provided all documentation required under this requirement, Contract Number C19529 is this day offered as completed to Border Force. | | |
| **Signed:** | For and on Behalf of the Supplier: | |
| **Print Name:** | Date: | |
| PART II: to be completed by The Authority | | |
| By Vessel Commander: | | |
| I attended the Project Completion Meeting of HMC PROTECTOR and have satisfied myself that all systems, machinery and equipment are working satisfactorily. I have inspected the HMC and consider she is in a condition suitable for return to operational service. | | |
| **Signed:** | Print Name / Post: | |
| By Border Force Overseeing Officer:  HMC PROTECTOR having completed contract C19529 to the satisfaction of the Authority and having completed all appropriate trials and received all documentation required under the Contract is hereby accepted at.…......... hours. | | |
| **Signed:** | Border Force Overseeing Officer | |
| **Print Name:** | Date: | |
| PART III: Warranty | | |
| **The issuing of a Project Completion Certificate to the Supplier by the Authority, or a duly authorised representative of the Authority, does in no way effect the warranty requirements as specified in this requirement nor the statutory rights of the Authority** | | |
| Distribution  Original - Retained by the Supplier  Copies to - Border Force Overseeing Officer | | |

# Annex L: Reimbursable Expenses

The Supplier may claim the following Reimbursable Expenses at the rates set out below:

1. **Travel**

Standard rate of allowance for private cars

Initial 10,000 miles 40p per mile

Additional miles over the initial 10,000 25p per mile

Public transport rate 23.8p per mile

2. **Hotel rates**

London £125 per night

All other locations other than London £90 per night

# Annex M supplied separately

# Annex N: Border Force Onboard Specification for Paint

Document Supplied Separately

# Annex Q: 2019 - 2020 SOP- Protector Final 17.08.20 v2.1

Document Supplied Separately



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