



Border Force

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

**STATEMENT OF REQUIREMENTS**

**HMC SEARCHER - MAINTENANCE AND SAFETY**  
**EQUIPMENT RECERTIFICATION**

**October 2020**

C18774



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## 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 (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) Searcher
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



Phrase	Definition
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 an Authority 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 Authority supplied; all spare parts required to complete an overhaul/maintenance/service including paint/anodes
Vessel	HMC Searcher.
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

- 1.1. 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).
- 1.2. The four Damen 4207 patrol vessels, of which HMC Searcher is one, are built in accordance with Lloyds 100A+ and hold valid MCA International Load line certification.
- 1.3. The primary roles of the Cutters are:
  - 1.3.1. 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.
  - 1.3.2. 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;
  - 1.3.3. To intercept suspect vessels in territorial and international waters; and
  - 1.3.4. To provide mutual assistance to other EC countries, the Channel Isles, the Isle of Man and other partners on the UK border.
- 1.4. 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.

### 4.0 Location

- 4.1 Due to the operational Working Location of the Cutter this requirement is to be undertaken inside the following geographical parameters;
  - 4.1.1 Plymouth area, Devon, UK and the Humber Estuary area, East Riding of Yorkshire, UK.

### 5.0 Constraints

- 5.1 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 fifteen (15) working days and no less than ten (10) working days.



- 5.9 The start date for this requirement is; 1<sup>st</sup> October 2020.
- 5.10 The expiry date for this requirement is be no later than; 31<sup>st</sup> October 2020.

## Part 4: Provision of Services

### 6.0 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 Finnings (Caterpillar)  
  
10 Abingdon Rd  
Nuffield Industrial Estate,  
Poole  
BH17 0GL
  - 6.2.2 DAMEN SHIPYARDS GORINCHEM B.V.  
  
Avelingen-West 20  
4202 MS,  
Gorinchem  
Netherlands
- 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.**



## Annex A: General Requirements of Work

### 1.0 Shore Power

- 1.1. The supplier is to provide 415 volt ( $\pm 5$  volts) 50 Hz 63amp, three phase shore power from grid/mains for the duration of the maintenance/LSA period.
- 1.2. Supplier to provide costs for;
  - 1.2.1. Connection of shore power cable
  - 1.2.2. Disconnection of shore power cable
  - 1.2.3. Unit cost per kWh.
- 1.3. If direct shore power is not available, the provision of a shore-based generator may be required after consultation with the BFOO.
  - 1.3.1. Supplier to provide costs for;
    - 1.3.1.1. Hire of generator
    - 1.3.1.2. Connection and disconnection of power cable
    - 1.3.1.3. Unit cost per kWh
- 1.4. Under 1.2.3 or 1.3.1.3, meter readings must be agreed with the BFOO before and after connection.
- 1.5. Payment of electricity consumed will be covered under the Emergent Work process.

### 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.



## 4.0 Disposal of Waste and Cleanliness

- 4.1 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.
- 4.2 Supplier to provide costs for the following;
  - 4.2.1 petrol, diesel, oils and lubricants;
  - 4.2.2 hazardous waste; and
  - 4.2.3 general waste.
- 4.3 The Supplier will lay temporary removable floor coverings to protect areas of entry, exit and through-routes in addition to the protection of decks and companion-ways. Any bulkheads in high volume areas are to be similarly protected where necessary.

## 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, crange, 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.



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

### 1.0 **Requirements for Certification.**

- 1.1 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.
- 1.2 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.

### 2.0 **Documentation**

- 2.1 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 copy folders 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 Border Force Overseeing Officer to check the contents and the index.**

### 3.0 **Fire Fighting and Fire Detection**

- 3.1 Inspect, clean and function test the following Fire Detection System Detector Heads: -
  - 3.1.1 26x Smoke Detectors
  - 3.1.2 1x Flame Detector



3.1.3 1x Heat Detector

3.1.4 Function Test the following: -

3.1.4.1 12x Call Points

3.1.4.2 9x Audible Alarm Units

3.1.4.3 2x Alarm Indicator beacons.

3.1.5 Inspect the control panel Power Supply Unit (PSU), Batteries and connections: noting expiry dates.

3.1.6 Fully function test the system including secondary power mode.

3.1.7 Update test tally and submit formal tabulation of reading results.

3.2 Service, Survey and Certify the Engine Room Fixed CO2 Extinguishing System as follows:

**NB: These tasks are to be carried out by an approved Marine Fire & Safety Contractor. Supplier to arrange.**

3.2.1 Disconnect the Main CO2 cylinders from the system and insert blanks;

3.2.2 Visually inspect the whole CO2 system;

3.2.3 Blow through discharge pipe work system with clean air at a minimum pressure of at least 20 bar.

3.2.4 Check the contents and levels of the 3 main 45kg CO2 cylinders and the operating cylinders;

3.2.5 Check all flexible hoses for ageing;

3.2.6 Check pilot bottle pressures are greater than 120 Bar and within 10% of one another;

3.2.7 Function check of the pull handle to activate the cylinder valves, close valves and check for leakage;

3.2.8 Fill CO2 manifold with (+/- 25 bar) from a CO2 test cylinder (Main valves closed, or sections sealed).

3.2.9 Close and disconnect the CO2 test cylinder, check thread connections for leakage;

3.2.10 Check operation of pressure gauge and blow through the CO2 pipe work with the CO2 gas in the manifold

3.2.11 On completion, re-connect / re-commission the system.

3.2.12 Present the re-commissioned system to the Border Force Overseeing Officer for acceptance.

3.3 Fire Extinguishers



- 3.3.1 Inspect all fire extinguishers as listed.
- 3.3.2 Carry out annual testing as per manufacturer's instructions for each item.
- 3.3.3 5 kg CO2 x 8 (7x require 10 yearly hydraulic pressure test)
- 3.3.4 6 KG Dry Powder x 7 (5x require 10 yearly hydraulic pressure test)
- 3.3.5 2 kg Dry Powder x2
- 3.3.6 9 litre Foam x 5 (3 require 10 yearly hydraulic pressure test)
- 3.3.7 Fire Blanket x 2

3.4 Fire Hoses and Nozzles.

- 3.4.1 The following fire hoses and nozzles are to be examined. On completion of examination they should be tested to 5.25 bar. A certificate of examination and testing shall be issued.
- 3.4.2 1x 20 metre 1 ½ diam. fire hose & nozzle (Boat Deck)
- 3.4.3 2x 10 metre 1 ½ diam. fire hoses & 1 nozzle (Fwd. Deck Port)
- 3.4.4 1x 10 metre 1 ½ diam. fire hose & 1 nozzle (Aft Deck)
- 3.4.5 1x 15 metre 1 ½ diam. fire hose & 1 nozzle (Forward Machinery Space)
- 3.4.6 1x 20 metre 1 ½ diam. fire hose (Forward Machinery Space)
- 3.4.7 2x 10 metre 1 ½ diam. fire hoses & 1 nozzle (Engine Room)
- 3.4.8 On completion of survey, pressure test the hoses and nozzles to 5.25 bar.

3.5 Carryout required maintenance, survey and testing of Breathing Apparatus Equip, as indicated:

**NB: These tasks are to be carried out by an approved Draeger service agent.**

- 3.5.1 3 x Drager PA90 plus (Annual survey and maintenance)
- 3.5.2 2 x Draeger CF10 EEED (Annual survey and maintenance)
- 3.5.3 9 x 9 litre carbon fibre BA cylinders (5 yearly hydraulic test, annual survey and maintenance)
- 3.5.4 2 x EEED air cylinders (5 yearly hydraulic test, annual survey and maintenance)
- 3.5.5 3 sets Fireman's Equipment (jackets, trousers, flash hoods, helmets, lifeline)
- 3.5.6 Supply certificates of 5 yearly hydraulic testing for each individual item so tested



3.5.7 Supply individual certificates for each item's annual survey and maintenance.

3.6 Carry out required maintenance, survey and testing of miscellaneous compressed air cylinders:

3.6.1 3x cylinders (10 yearly hydraulic pressure test, survey and maintenance)

3.6.2 Issue certificates for each individual item

#### **4.0 Survival Equipment.**

1.0 Inspect, service and test inflatable lifejackets:

**NB: These tasks are to be carried out by an MCA/ UK Flag State approved MRT service agent.**

4.1.1 10x Crewsaver Seacrusader SOLAS approved inflatable lifejackets, complete with McMurdo locating beacons, are to be Inspected, serviced and tested

4.1.2 Replace CO2 inflation cylinders as necessary

4.1.3 Issue individual certificates of inspection and test

4.1.4 Report all defects found to the Border Force Overseeing Officer

4.2 EPIRB

**NB: This Inspection/Service to be carried out by an approved service agent whose details will be notified to the Authority with the submission of the formal quotation in accordance with the guidelines in MSC/Circ.1040, carryout annual testing of the 406Mhz satellite Jotron EPIRB as required by SOLAS regulation IV/15.9 from 01-July-2002.**

4.2.1 Remove the EPIRB from the vessel and dispatch to approved service agent.

4.2.2 Survey & Service EPIRB

4.2.3 Inspect EPIRB Hydrostatic release expiry date and if less than 1 year remains, renew EPIRB hydrostatic release unit and plastic retaining bolt.

4.2.4 Check EPIRB, if less than one year remaining, renew batteries as required.

4.2.5 Issue a service report with a list of the test results and maintenance performed

#### **5.0 Safety & Rescue Equipment**



- 5.1 Survey & Certify the 'Helicopter Strop' rescue sling.
- 5.2 Survey and Certify the following personal Safety Harness equipment:
  - 5.2.1 2x KRATOS full body harnesses
  - 5.2.2 2x Seago safety lines.
  - 5.2.3 2x Waist Harnesses
  - 5.2.4 4x 2m restraint lanyards
  - 5.2.5 KRATOS two-point body harness
  - 5.2.6 1x Saviour Technical stretcher

- 5.3 Survey and Certify the fixed components of the GlideLoc Mast Installation

**NB: These tasks are to be carried out by a Soll approved GlideLoc / SALA Service Agent.**

- 5.3.1 2x GlideLoc Fall Arrest Traveller
- 5.3.2 Fall Arrest Block
- 5.3.3 2x Work Positioning Strap
- 5.4 Survey and Certify the following GlideLoc/SALA Mast Access Equipment personal safety equipment:

**NB: These tasks are to be carried out by an approved GlideLoc / SALA Service Agent**

- 5.4.1 2x Miller Full Body Harness to EN361 with back strap
- 5.4.2 2x Petzl climbers Helmet
- 5.4.3 1x AG 10 rescue kit including 30m rope and webbing straps
- 5.4.4 2x Inertia Lanyard
- 5.5 MARS (Man overboard Recovery Ladder)
  - 5.5.1 The MARS recovery equipment is to be dispatched to the manufacturer Messrs SWL Ropes and Rigging Southampton for annual survey at;  
  
Messrs SWL Ropes and Rigging  
65 Bernard Street  
Southampton  
SO1 1BA  
Tel: 02380 338286



- 5.6 Carry out thorough survey of the scrambling net (including the securing arrangement) and issue certificate.
- 5.7 Carry out thorough survey of the Jason's Cradle including captive slings and issue certificate.
- 5.8 Carry out thorough survey of the Fiberlite frame and issue certificate.

**6.0 Deck Equipment**

**NB: All equipment to be tested under Lifting Operations and Lifting Equipment (LOLER) and MGN 332 regulations.**

6.1 Emergency Anchor Recovery Equipment

**NB: The service is to be carried out by an approved test house whose details will be notified to the Authority with the submission of the formal quotation.**

- 6.1.1 The following anchor recovery equipment is to be examined, certified and where appropriate tested:
- 6.1.2 1x Tractel Turffer tackle block and wire 3200kgs SWL
- 6.1.3 1x GS Double fall manual chain block x 6metres HOL 3000 SWL
- 6.1.4 1x Duplex polyester web belt sling terminating in a captive eyed latch hook one end only EWL 840 mm 3000 kgs SWL
- 6.1.5 1x Ace grade 8 alloy steel single leg chain, complete with 16/8 Bergok one end and 16/8 shortening clutches the other, EWL 400mm 3,500kgs SWL @ 90 degree
- 6.1.6 1x 16 mm diam. single leg wire rope sling terminating in soft eyes EWL 850mm 3000 kgs SWL
- 6.1.7 1x 1" Bow shackle 3750 kgs SWL
- 6.1.8 8x Screw pin bow shackles

6.2 Emergency Towing Equipment:

- 6.2.1 Remove the 32mm x 200 metre 8 strand Multi-plait Towing Line and associated towing shackles from vessel
- 6.2.2 Undertake visual survey of Towing Line and load test the shackles
- 6.2.3 Report all defects found, with work recommendations, to the Border Force Overseeing Officer
- 6.2.4 Return and re-store Towing Line and Towing Shackles onboard Cutter



- 6.3 Inspect and certify the RHIB recovery and securing equipment.
  - 6.3.1 RHIB screw pin “D” shackle
  - 6.3.2 RHIB wire rope sling
  - 6.3.3 RHIB turnbuckle
  - 6.3.4 RHIB quick release pin
  - 6.3.5 RHIB 10mm connector
- 6.4 Carry out a Dynamic Load Test of the anchor windlass using a horizontal load of 1.6 tonnes. On completion of successful test, update test tally and supply test certificate
- 6.5 Carry out a Dynamic Load Test of the RHIB Recovery Capstan using a perpendicular load of 1.6 tonnes. On completion of successful test, update test tally and supply test certificate
- 6.6 Carry out a Dynamic Load Test of the Port and Starboard After Mooring Capstans to 1.15 tonnes. On completion of successful test, update test tally and supply test certificate
- 6.7 Survey and certify the RIB recovery equipment 12mm stainless steel rope, safety hook and swivel to a SWL of 1.6 tonnes. On completion of successful survey, update test tally and supply test certificate
- 6.8 Man Overboard Boat (MOB) System

**NB: the following items are to be carried out by an approved Schat Harding service agent whose details will be notified to the Authority with the submission of the formal quotation. The normal practise from Messrs Schat Harding is to use a service exchange QRH.**

- 6.8.1 Carry out Annual Inspection and Maintenance of SEC MS2-7-40 MOB Davit.
  - 6.8.2 Carry out Annual Inspection and Maintenance of Schat-Harding RRH15 MOB quick release hook
  - 6.8.3 Carry out load testing of Schat-Harding RRH15 MOB quick release hook.
- 6.9 Duarry 3.8 metre MOB Boat

**NB 1. These tasks are to be carried out by an MCA or UK Flag State approved service agent(s) whose details must be notified to the Authority with the submission of the formal quotation. In the event a Duarry agent is unavailable, an approved Zodiac Service Agent will be acceptable. Work on the Outboard Engine is to be conducted by an approved Yanmar service agent.**

**NB 2. On return the outboard is to be re-installed on the MoB Boat.**

- 6.9.1 Remove MOB boat and send for service, survey & certification.



6.9.2 Survey & Certify 4 leg lifting sling and 4 lifting points.

6.9.3 Remove MOB Boat 25hp Yamaha Long Shaft Outboard Engine and send for annual service as per manufacturer's instructions. All parts are Supplier supply

6.9.4 Issue service report, test and survey certificates on successful completion of work

## **7.0 Miscellaneous**

### 7.1 Microwave Ovens

7.1.1 Inspect and Radiation test 2 x Microwave Ovens located in galley and mess deck.

### 7.2 Oxygen Therapy Kit (NB: There are 2 x Oxygen cylinders)

7.2.1 The onboard Oxygen therapy kit, including Oxygen cylinders, is to have its annual service carried out by an approved service agent

### 7.3 Gangway Brow

7.3.1 The gangway brow is to be inspected for weld/construction defects

7.3.2 If item is satisfactory, a load deflection test of 450 kgs is to be conducted

7.3.3 Associated brow safety net is to be thoroughly surveyed

7.3.4 Test and survey certificates are to be supplied on successful completion

### 7.4 Steering gear chain blocks

7.4.1 4x chain blocks are to be thoroughly surveyed and tested

7.4.2 Survey and test certificates are to be supplied on successful completion

### 7.5 Boarding Ladders

7.5.1 The 2m Pilot ladder is to be dispatched to the manufacturer Messrs SWL Ropes and Rigging, Southampton (5.5.1) for annual survey.

7.5.1.1 Carry out thorough inspection of ships Boarding ladder.

7.5.1.2 On completion of successful test issue certificate.



## Annex C: Vessel Maintenance Tasks

**NB: Where it is stipulated in this SoR that approved engineers/agents are to be used, the Supplier shall submit details, to include business address and contact details, to the Authority, of these engineers/agents who will carry out the work alongside the formal quotation.**

### **1.0 Deck**

- 1.1 Overhaul Raised Coaming water tight hatches;
  - 1.1.1 Weather deck Fwd./Lower Deck Fwd. Accommodation;
  - 1.1.2 Weather deck / Waist Main Engine Room Access;
  - 1.1.3 Weather deck / Port Aft Peak Steering Compartment Access; and
  - 1.1.4 Weather deck / Stbd Aft Steering Compartment Access.
- 1.2 On completion of all work, function test the hatches to prove security and water tight integrity to the satisfaction of the Border Force Overseeing Officer.

### **2.0 Main Engine: Caterpillar 3516B**

**NB: Main Engine lubrication oil capacity is 405 litres (Castrol Vectron 15/40), Oil and Filters will be supplied by the Authority.**

- 2.1 Change oil and filters on both Port and Stbd Caterpillar 3516B main engines:
- 2.2 Existing main engine lubrication oil charge is to be pumped out and disposed of in accordance with extant regulations.
- 2.3 Renew the lubrication oil filters.
- 2.4 Replenish the lubrication oil charge.
- 2.5 Change the main engine fuel filters (only change the 5x main filters).

### **3.0 Main engine Port and Stbd Reintjes WLS930 Reduction Gearboxes**

**NB: This service is to be completed by an approved Reintjes service agent.**

- 3.1 Annual external inspection;
- 3.2 Open the Inspection plates and carryout an internal inspection of the pinions and gearwheels in accordance with Reintjes WLS & WVS maintenance service routines.
- 3.3 Test all temperature and pressure shut down devices.



- 3.4 Test all sensors, inter-switches and alarm systems for correct operation
- 3.5 Existing gearbox lubricating oil charge is to be pumped out and disposed of in accordance with extant regulations.
- 3.6 Renew the in-use lubricating oil filters (only change the in-use oil filter).
- 3.7 Change the sinter filter.
- 3.8 Replenish the lubricating oil charge.

**NB: Main Gearbox lubrication oil capacity is 90 litres (Castrol MHP 153), Lube Oil to be Authority supply.**

- 3.9 On completion, a Reintjes Service Report is to be provided to the Border Force Overseeing Officer in both hard and electronic copy formats.

#### **4.0 Generator alternators Port and Starboard**

- 4.1 Test and record the insulation readings of both the Port and Starboard SR 4 alternator windings
- 4.2 Function check both generator anti-condensation heaters are working, record voltage and amperage at the heating elements.
- 4.3 Submit formal tabulation of readings taken
- 4.4 Report Details to the BFOO.

#### **5.0 Generators Port and Starboard maintenance overhaul**

**NB: A major overhaul of both generator engines will be contracted separately by the Authority with an approved Caterpillar Agent. The Supplier is to allow any access required to undertake this work and provide any necessary assistance required by the Authority. Costs of any such assistance will be dealt with under the EW provisions.**

#### **6.0 Steering Gear Installation**

**NB: There are two electronically linked Steering Gear installations each installation has two hydraulic pumps and consequently two starters.**

- 6.1 Carry out visual and physical inspection of the Port & Starboard steering gear installations checking for:
  - 6.1.1 Hydraulic leaks;
  - 6.1.2 Wear on Hydraulic Hoses;
  - 6.1.3 Cylinders and rams for leakage;



6.1.4 Tightness / security of linkages & connection; and

6.1.5 Inspect tank anti-vibration mounts.

6.2 Inspection Report is to be provided to the Border Force Overseeing Officer in both hard and electronic copy formats.

## **7.0 Bow Thruster**

7.1 Check the condition of the Bow Thruster flexible coupling element and the mounting bolts.

7.2 Report findings to the Border Force Overseeing Officer.

7.3 The following Bow Thruster hydraulic power pack hydraulic oil filters are to be changed:

7.3.1 Filter Element No E26N - Off Line Filter

7.3.2 Tank Top Return Filter H33O R20N

7.3.3 Tank Top Return Filter H160 R20

**NB: Filters are Authority supplied.**

## **8.0 Emergency Fire Pump**

**NB: This work is to be undertaken by an approved Lombardini service agent.**

8.1 50hr service on Lombardini Diesel Firefighting Pump Engine as per manufacturer's instructions for 250 hours.

8.2 Service Report is to be provided to the Border Force Overseeing Officer in both hard and electronic copy formats.

## **9.0 Portable Salvage Pump**

**NB: This work is to be undertaken by an approved Yanmar service agent.**

9.1 Carry out 50 Hour service on the Yanmar L48 4.8HP diesel engine as per manufacturer's instructions for 250 hours.

9.2 Service Report is to be provided to the Border Force Overseeing Officer in both hard and electronic copy formats.

## **10.0 Separ Fuel Filters Fuel Oil System**

10.1 Three (3) engine SEPAR coalescer fuel filters are to be:

10.1.1 Removed, stripped, cleaned and inspected.

10.1.2 Renew filter elements as necessary.



10.1.3 Refill with FO when finished.

**NB: two (2) are in use and one (1) is on standby. Filters are Border Force supplied.**

**11.0 Domestic Water System**

11.1 Hydrophore (BT) Fresh Water Hydrophore Unit.

11.1.1 Disconnect and drain the hydrophore.

11.1.2 Inspect the hydrophore cylinder and rubber bladder.

11.1.3 Remove the bladder, clean it with freshwater and sterilize it.

11.1.4 Inspect the cylinder for excess corrosion, leaks or damage.

11.1.5 Inspect the bladder for damage, leaks or signs of perishing: renew the bladder if necessary.

11.2 Re-pressurise the air space between the hydrophore cylinder and bladder to 0.2 bar.

11.3 On completion of all work re-commission the system and function test to the satisfaction of the Border Force Overseeing Officer and report details.

11.4 Domestic Hot FW System:

11.4.1 2 x Daalder domestic fresh water calorifier Heaters (No.1 and No.2)

11.4.2 Inspect & Pressure Test Calorifiers (carry out pressure test to 6 bar for 15 minutes).

11.4.3 Inspect for leaks and damage.

11.4.4 Check pressure setting of PRV, replace if more than 2 years old, Authority will supply any necessary replacements

11.5 Supply local tallies to record the pressure and test date and issue ISO 9001 standard certificate of test.

11.6 Carry out and record insulation test on the 6 kW Heating elements in both calorifiers.

11.7 Inspection Report is to be provided to the Border Force Overseeing Officer in both hard and electronic copy formats.

**12.0 Air Conditioning System**

12.1 Replace the AC Compressor drier filling.

12.2 Inspect the condition of the V- belts driving the ventilation fan.

12.3 Measure the deflection/tension of the v-belts and adjust as required.



- 12.4 Inspect refrigeration system pipework and system.
- 12.5 Inspection Report is to be provided to the Border Force Overseeing Officer in both hard and electronic copy formats.

**13.0 Electrical Distribution**

- 13.1 Check insulation readings on listed circuits.
- 13.2 Check and record insulation readings on all circuits from the following locations:
  - 13.2.1 Main switchboard (Engine Room) 415/240V 50Hz.
  - 13.2.2 P1 power/lighting distribution board (Engine Room) 415/240V 50Hz
  - 13.2.3 P2 power/lighting distribution board (Forward Machinery Space) 415/240V 50Hz
  - 13.2.4 L3 lighting distribution board (Main Deck Technical Room) 415/240V 50 Hz.
  - 13.2.5 L4 lighting distribution board (Wheelhouse) 415/240V 50 Hz.
  - 13.2.6 Central distribution board (Wheelhouse) 415/240V 50Hz.
  - 13.2.7 AC plant distribution board (Forward Machinery Space) 415/240V 50 Hz.
- 13.3 Submit formal tabulation of reading results in the format of the attached Annex K
- 13.4 Shore Power Supply:
  - 13.4.1 Inspect & Test Shore Power Connection Box & Cable;
  - 13.4.2 Submit formal tabulation of reading results;
- 13.5 Earth Bonding:
  - 13.5.1 Check Earth Bonding of Shafts, Rudders & Stabilizers;
  - 13.5.2 Submit formal tabulation of reading results, in the format of the attached Annex;
- 13.6 Clean, Inspect and Test Starters and Motors for the following:
  - 13.6.1 Anchor Windlass
    - 13.6.2 Port and starboard capstans (2 in total)
    - 13.6.3 MOB Boat Davit
    - 13.6.4 Steering gear system pumps (4 in total)
    - 13.6.5 Bilge/general service pumps (2 in total)



13.6.6 FW hydrophore pumps (2 in total)

13.6.7 AC pump

13.6.8 AC compressor

13.6.9 Tasks for 13.6.1 – 13.6.8 to include:

13.6.9.1 Insulation testing

13.6.9.2 Continuity testing of earth bonding

13.6.9.3 Function test of current overload devices

13.6.9.4 Function test of anti-condensation heaters

13.9.6.5 Motor bearing condition checks

13.7 On completion of all work, restore power supply and function test to the satisfaction of the Border Force Overseeing Officer.

13.8 Inspection Report is to be provided to the BFOO in both hard and electronic copy formats.

#### **14.0 240v Portable Appliances**

14.1 Carryout & Document PAT on, approximately, 180 items of 240v Appliances.

14.2 On completion of satisfactory test, label each appliance with a suitable identification label indicating:

14.2.1 Pass.

14.2.2 Date of Test and Initials of tester.

14.3 Submit formal tabulation of reading results.

#### **15.0 Magnetic Compasses, Lilley and Gillie SR-3**

15.1 Inspect & carryout compass Swing on the binnacle mounted Lilley & Gillie SR-3 magnetic compasses on the wheelhouse top.

15.2 Inspect the spare Lilley & Gillie SR-3 magnetic compass held in the messroom.

15.3 Inspect & carryout compass Swing on the binnacle mounted Lilley & Gillie SR-3 magnetic compasses on the wheelhouse top.

15.4 Inspect the spare Lilley & Gillie SR-3 magnetic compass held in the messroom.

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



- 15.6 The compass swing is to be carried as early as possible after the completion of the annual maintenance period: at the convenience of the vessel's Commander, when the vessel is fully operational with all equipment embarked.

**NB: It is important that the spare compass is stowed inverted so that wear on the bearing is avoided.**

## **16.0 Super Chlorination of the Domestic Fresh Water System**

- 16.1 Super chlorinate the Fresh Water Holding Tank.

16.1.1 Open the fresh water holding,

16.1.2 Carry out visual survey of the tank coating in conjunction with International Paints representative/BFOO

16.1.3 Once the tank coating is acceptable, re-fit the holding tank lids, using new nitrile material gaskets

16.1.4 Press up the holding tank with treated super chlorination mixture

16.1.5 Run water through ALL taps, hoses and shower heads: ensuring the super-chlorination concentrate levels are monitored and maintained.

16.1.6 De-chlorinate the freshwater tank: run through ALL taps, hoses and shower heads.

16.1.7 Drain down the system & the holding tank.

16.1.8 Super chlorinate the Fresh Water Holding Tank.

16.1.9 Re-fill up Fresh Water tank, take water samples of the onboard system and shoreside

16.1.10 Submit samples for analysis of potability and legionary's disease

16.1.11 Provide a certificate of potability and no legionary present upon completion of satisfactory tests.

**NB: Failure to achieve WHO test standards for both potable water and legionella will require re super-chlorination and re-testing at the Suppliers cost, until satisfactory test results, which meet WHO standards for potable water, are obtained.**

## **17.0 Painting**

- 17.1 An allowance of 35 hours is to be provided for surface painting of bollards, hatches, guardrails etc, as directed by the BFOO. All paint will be Authority Supply and all painting must be to the attached International Paint specification.

## **18.0 Ventilation fans**



- 18.1 The following ventilation fans are to be overhauled
  - 18.1.1 2x Engine Room ventilation
  - 18.1.2 1x Galley Extraction
  - 18.1.3 Off Shower/Laundry
- 18.2 Disconnect the listed fan motors and transport to a suitable shore-side workshop.
- 18.3 Protect exposed cables from damage/ingress of moisture
- 18.4 Carry out overhaul of the motors in accordance with the manufacturer's recommendations
- 18.5 Clean and re-preserve all 4 fans
- 18.6 Whilst galley fan is removed from vessel the ductwork is to be de-greased and cleaned
- 18.7 On completion of the overhaul, reinstall the motors and carry out earth bonding, continuity insulation tests.



## Annex D: Modifications and Defect Rectification

### **1.0 The vessel Intruder alarm system is to:**

- 1.1 Have all 13x access doors and hatches roller contact switches replaced with Telemecanique XCKS131 switches including mounting bracketry where necessary.
- 1.2 Tested to prove operation to the satisfaction of the BFOO

### **2.0 The 7x fresh water windscreen washer injection nozzles are to be:**

- 2.1 Removed
- 2.2 Cleaned and orifices checked for blockages
- 2.3 Re-installed and tested

### **3.0 The 7 Wynn windscreen wiper assemblies are to be:**

- 3.1 Opened for inspection
- 3.2 Survey completed on their drive assemblies
- 3.3 Reported to the BFOO any remedial action will be dealt with under the emergent work procedure

### **4.0 The Freeman Rope locker foredeck flush hatch is to be:**

- 4.1 Cleaned back of all corrosion
- 4.2 The sealing sill is to be checked for concentricity of height and thickness
- 4.3 The sealing sill height to be built-up to provide a concentric level of height and thickness
- 4.4 A new Border Force supplied seal is to be installed in the hatch
- 4.5 Chalk tested to prove seal contact and hose test to prove the seal is water tight
- 4.6 All exposed metalwork is to be re-preserved in accordance with the vessel's paint specification.

### **5.0 Port main engine:**

**NB: Defect rectification on the Port Main Engine will be contracted separately by the Authority with an approved Caterpillar Agent. The Supplier is to allow any access required to undertake this work and provide any necessary assistance as required by the Authority. Costs of any such assistance will be dealt with under the EW provisions.**





Annex F: Vessel Details

 Border Force	Name	MMSI	Callsign
	HMC SEARCHER	235081000	ZQNK9
	HMC SEEKER	235082000	ZQNL2
	HMC VALIANT	235745000	MBLL8
	HMC VIGILANT	235521000	ZITI4
<b>Length overall (LOA)</b>	42.80 m		
<b>Length waterline (LWL)</b>	42.80 m		
<b>Beam Overall</b>	6.95 m		
<b>Draught aft full load</b>	2.5 m		
<b>Ht Overall USK to mast</b>	17.8 m		
<b>Displacement</b>	251.1 tons		
<b>Deadweight</b>	69.3 tons		
<b>Gross Tonnage</b>	235 tons		
<b>Construction</b>	Steel Hull Aluminium Superstructure		
<b>Main Engines</b>	2x Caterpillar 3156B		
<b>Gearbox</b>	2x Reintjes WLS		
<b>Propulsion</b>	2x Controllable Pitch Propellers		
<b>Speeds</b>	26.50 knots		
<b>Manoeuvrability</b>	2x Rudders		
<b>Range / Endurance</b>	Up to 2150 nautical miles at 12 knots		
<b>Fuel</b>	23 cubic metres		
<b>Fuel Consumption</b>	Variable		
<b>Fresh water</b>	6 cubic metres		
<b>Black Water</b>	2 cubic metres		
<b>Accommodation</b>	16 persons		
<b>Built to</b>	Lloyd's 100A1 SCC		



Annex G: Emergent Work Individual Item Proforma

<b>Emergent Work (EW) Individual Item Proforma</b>		 <b>Border Force</b>	
<b>EMERGENT WORK ITEM No: C18774/</b>			
<b>Description</b>			
<b>Signed, BFOO:</b>		<b>Date:</b>	
<b>PART I: By Supplier</b>			
The above item is accepted as a genuine Emergent work item.			
<b>Our Firm Price is*<sup>Δ</sup></b>		£	
<b>Our Realistic Estimate is*<sup>Δ</sup></b>			
<b>Signed:</b>		<b>Position:</b>	
		<b>Dated:</b>	
<b>TIME PENALTY (if any) ..... The completion date of the contract* will/will not be affected by this item.</b>			
<b>PART II: By Border Force Overseeing Officer</b>			
It is agreed that this is a genuine emergent work item and authority is given for the work to be undertaken.			
<b>The Above Firm Price/Realistic Estimate* of £</b>		<b>ACCEPTED</b>	<b>REJECTED</b>
<b>Signed:</b>		<b>Date:</b>	
<b>Notes:</b>			
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 I: Handover Certificate

HMC Searcher



Border Force

This Handover Certificate is to be duly signed by a representative of the Authority and the Supplier should the aforementioned 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 Searcher 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 Searcher 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


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

**PART I: to be completed by Supplier**

## HMC Searcher

HMC Searcher having been removed from the water to perform maintenance tasks associated with contract C18774 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.

<b>Signed:</b>	For and on Behalf of the Supplier:
<b>Print Name:</b>	Date:

**PART II: to be completed by The Authority**

I attended the re-floating of HMC Searcher 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:	
<b>Signed:</b>	Print Name / Post:
By Border Force Overseeing Officer:	
<b>Signed:</b>	Border Force Overseeing Officer
<b>Print Name:</b>	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

PART I: to be completed by Supplier

## HMC Searcher

HMC Searcher, having completed contract C18774 to the satisfaction of the Authority and having successfully completed any applicable trials and provided all documentation required under this requirement, Contract Number C18774 is this day offered as completed to Border Force.

<b>Signed:</b>	For and on Behalf of the Supplier:
<b>Print Name:</b>	Date:

PART II: to be completed by The Authority

By Vessel Commander:

I attended the Project Completion Meeting of HMC Searcher and have satisfied myself that all systems, machinery and equipment are working satisfactorily. I have inspected the vessel and consider she is in a condition suitable for return to operational service.

<b>Signed:</b>	Print Name / Post:
----------------	--------------------

By Border Force Overseeing Officer:  
HMC Searcher having completed contract C18774 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.

<b>Signed:</b>	Border Force Overseeing Officer
<b>Print Name:</b>	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: Paint Specification

Please see attached document.



## Annex N: Lubrication Specification

Please see attached document.



## Annex O: Table of Readings

Please see attached document.



## Annex P: Border Force SOP 08

SOP 08 will be made available to the Supplier post contract award.



## Annex Q: Survey reports

1. Portable Appliance Testing
2. Electrical insulation test results
3. Alternator insulation test results
4. Reintjes Gearbox
5. Intentionally Blank
6. Hatches, water test
7. Steering Gear inspection
8. Bow thruster coupling
9. Potable Fire pump service
10. Emergency Fire pump
11. Hydrophore
12. Air Conditioning
13. Electrical Starters
  - 13.1 GS pumps x 2
  - 13.2 Capstans x 2
  - 13.3 Anchor Windlass
  - 13.4 Davit
  - 13.5 AC pump
  - 13.6 Hydrophore pumps x 2
14. Davit



## Annex R: PCM Meeting Agenda

1. Attendees
2. Defects Outstanding
3. Certificates and Survey Reports
4. Certificates as per Annex P
5. Survey Reports per Annex Q
6. Completed work forms
7. Financial
8. Contract
9. Emergent work
10. Invoicing
11. Completed signed maintenance work orders
12. Return of all drawings and manuals
13. Spares to be returned
14. Unused spares
15. Point of contact for warranty - including out of hours
16. Border Force Project Completion Certificate - Annex K
17. AOB

**NB: The meeting minutes are to be recorded by the Supplier and emailed to the BFOO.**



## Annex S: Basin Trials Report Form

Please see attached document.



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Any enquiries regarding this publication should be sent, For the Attention of, Adam Jones via email at [adam.jones43@homeoffice.gov.uk](mailto:adam.jones43@homeoffice.gov.uk) .