



**Border Force**

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

## **STATEMENT OF REQUIREMENTS**

**HMC Valiant – Planned Maintenance and Safety  
Equipment Recertification**

**August/September 2021**

C21467

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## Definitions

Phrase	Definition
Acceptance	The Authority will formally complete Acceptance of the Vessel at the Acceptance meeting, by issue of an Acceptance certificate to the Supplier, which will be duly signed by the BFOO on behalf of the Authority, when all specified items of the requirement or authorised EW tasks have been completed satisfactorily
After-Service	A single phone number of the Supplier giving access to a technical point of contact able to give user friendly assistance to Authority staff experiencing technical complications with any part or operation of the Cutters.
Alongside Berth	A suitable quay/berth with at least year-round 1m depth below Low Water Spring Tides (LWS) complete with safe access by gangway.
Authority (BF)	Border Force
Bidder	A person or organization making a formal offer.
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) Valiant
Defect Rectification	Work undertaken to resolve any kind of defect identified and listed in the work package at Annex D.
Emergent work (EW)	<p>Any additional work that emerges from the specified Planned Maintenance, which is notified to the Supplier in this Statement of Requirements.</p> <p>Any repairs which are required as a direct result of defects/damage found during this package of works.</p> <p>A Formal Emergent Work form issued by the Authority, is to be duly completed by the Supplier, is to be issued to the BFOO for every item of EW. The BFOO is the only Authority officer able to authorise Emergent Work.</p>
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 safely 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 Progress Meeting (PPM)	A formal Progress Meeting to be conducted between the BFOO and the PM on every Monday and Thursday for the duration of the contract at a time to be agreed as part of contract mobilisation and following award.



Phrase	Definition
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 project close-down meeting between Supplier and BFOO.
Project Initiation Meeting (PIM)	The mandated, initial, meeting between Supplier and BFOO.
Planned Maintenance	The package of works as detailed as detailed in the Specification of Requirements.
Project Manager (PM)	A member of the Supplier's staff who is responsible for the overall planning and execution of a project. PM to be available via phone or email the lifetime during the Working Day.
Progress Report	A formal report that is emailed to the BFOO, either on request or as scheduled, 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 Force Overseeing Officer complete with safe permanent means of access to the Vessel.
Spares	Unless specified as Authority supplied; all spare parts required to complete this requirement including paint/anodes.
Vessel	HMC Valiant.
Warranty	A guarantee, issued to the Authority by the Supplier, promising to repair or replace an item or rectify a service level, if necessary and within a specified period.
WHO	World Health Organisation
Working Location	The area in which the Cutter is operational
Work in Way	This is additional work that occurs before the repairs/maintenance works are started.
Work in Wake	This is additional work that occurs 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 Valiant 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 in support of the UK's national security strategy.
  - 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 EU 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 Agency, Police and UK Fisheries Agencies.

## Part 2: Insurance

### 2.0 Insurance

- 2.1 The Supplier is to provide written confirmation and self-certify whether you already have, or can commit to obtain, prior to the commencement of the contract, the levels of insurance cover indicated below:
  - 2.1.1 Minimum Employer's (Compulsory) Liability Insurance = £5,000,000.00
  - 2.1.2 Public Liability Insurance = £1,000,000.00
  - 2.1.3 Professional Indemnity Insurance = £1,000,000.00
- 2.2 The limit of liability, as expressed in 2.1, is to be for every accident or series of accidents arising from the same event.



- 2.3 The Suppliers insurance policy is to cover all employees of the Supplier or any entities sub-contracted by the Supplier, or by the Authority, during the life of this contract and in the undertaking of this requirement.
- 2.4 The insurance certificate is to be submitted to the Authority in .pdf format after contract award.

## 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 as authorised by the BFOO.

### 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 Between: Portland and the Humber Estuary.

### 5.0 Constraints

- 5.1 All specified items contained in Annex's A, B, C and D must be completed.
- 5.2 All quotations are to be submitted in GBP.
- 5.3 All work must be completed in accordance with this Specification of Requirements and must be compliant to all applicable industry standards or Flag State regulations and in accordance with all applicable laws.
- 5.4 The Supplier is to ensure that all new parts and equipment fitted are to be supportable for a period of five years following installation and provide evidence to the BFOO of this at the PCM.
- 5.5 All new equipment shall be provided with relevant operator and maintenance documentation, and any applicable certification. If applicable, these items are to be presented to the BFOO at the PCM.



- 5.6 For the purposes of this requirement, the working day is to be no less than any eight (8) hour period between 07:00am and 18:00pm.
- 5.7 For the purposes of this requirement, the working week is taken as meaning Monday to Friday and consists of five (5) working days.
- 5.8 The Authority expects the duration of this requirement to be no longer than fifteen (15) working days.
- 5.9 The start date for this requirement is to be no later than 23<sup>rd</sup> August 2021.

## 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, at any point during the lifetime of this contract.
- 6.2 The Authority may engage with OEM manufacturers under separate commercial arrangements. The Supplier must afford access, as required, and assist with various tasks as instructed by the BFOO under Emergent Work process to complete specific work as arranged by the Authority under a separate arrangement with OEM to this docking contract.

For clarity the OEM's are, but not limited to.

6.2.1 Finning's (Caterpillar)  
10 Abingdon Rd  
Nuffield Industrial Estate,  
Poole  
BH17 0GL

- 6.3 The Supplier shall submit a draft CDP covering the completion of all planned work as part of the formal quotation for this work package. Once agreed by the Authority this will form the final CDP to be followed during the lifetime of the contract.
- 6.4 During the contract period, the BFOO and Authority appointed contractors shall, during normal working hours, be afforded access to all premises of the yard or its suppliers where any parts are being fitted, removed, manufactured, repaired, or serviced.
- 6.5 The Supplier is to ensure that all tasks are completed by suitably qualified and experienced personnel (SQEP) in relation to the equipment being worked upon. The Supplier may be asked to prove the qualifications of any employees or contractors by the BFOO at any time.
- 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. The Supplier is responsible for returning any soft furnishings,





including mattresses, that become soiled to a clean and usable state or to replace any such items like for like.

- 6.7 A clean, secure and environmentally controlled storage facility is to be provided for the crew to stow onboard domestic equipment and ancillary items of at least 30m<sup>2</sup>.
- 6.8 The vessel will be formally handed over into the custody of the Supplier in accordance with the Handover Certificate (Annex I) for completion of this docking specification
- 6.9 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.
- 6.10 Prior to the re-floating of the vessel, the Supplier will issue a suitability to re-float certificate to the BFOO indicating the vessel is in a fit, suitable, and watertight state to be re-floated. The BFOO will endorse the certificate once the Supplier has evidenced the vessel is fit for re-floating.

## 7.0 Project Management

- 7.1 As part of the CDP the Supplier must schedule and attend a Project Initial Meeting (PIM) with the BFOO prior to any works being undertaken on the vessel.
- 7.2 During the meeting, 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 including the Suppliers Covid health protection measures.
  - 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 CDP, the Supplier is to provide a report to the BFOO within twenty-four hours of the identification of any deviation from the submitted CDP. Any cost implications are to be negotiated and agreed in accordance with the EW process following authorisation from the BFOO.
- 7.4 The Supplier must schedule and attend a Project Progress Meeting (PPM) with the BFOO and formally minute the meeting.
  - 7.4.1 Project progress on task by task discussion
  - 7.4.2 Emergent Work and costs



7.4.3 Sub-contractors, both Supplier and The Authority

7.4.4 Technical issues

7.5 As part of the CDP the Supplier must schedule and attend a Project Conclusion Meeting (PCM) and confirm the following.

7.5.1 all specified work items contained in Annex's B, C and D, in addition to all authorised EW tasks, have been completed to the satisfaction of the BFOO.

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 agree a project total cost.

7.6 Following the PCM 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 After-Service for reporting faults and obtaining technical advice, during the hours of 08:00 and 16:30, Monday to Friday.

8.2 Response times for the service outlined in § 8.1 shall allow for all faults to be logged, given a reference number and Rectification Plan agreed between all parties within a maximum of two (2) working days of the fault being logged.

8.3 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.

8.4 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 the Vessel is accepted back into the custody of the Authority.

8.5 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 the Vessel is accepted back in to the custody of the Authority.

8.6 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 two (2) 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 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.



- 8.7 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 within a maximum of 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 The Supplier is to ensure that all EW is authorised by the BFOO prior to commencement of that agreed work task.
- 9.2 The Supplier is to inform the BFOO if any of the Suppliers employees or contractors have been approached by any other member of the Authority's staff or a member of the crew to undertake not specified in this Requirement or authorised as an EW task.
- 9.3 The Supplier is to confirm that they understand the vessel commander is unable to commission or authorise work tasks at the PIM.
- 9.4 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 by the BFOO.
- 9.4 The Supplier must ensure any additional costs or time delays that may impact on the overall project cost or timeline are articulated to the BFOO with the EW proposal as defined in § 9.4.
- 9.5 The BFOO will authorise the Emergent Work on behalf of the Authority, if deemed appropriate by the BFO, and provide formal acknowledgement of acceptance of the proposal including costs and completion timeframe 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 email all authorised Emergent Works Individual Item proformas along with the overall Emergent Work Item Record Spreadsheet (Annex H), to the BFOO one working day prior to PCM.



**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 (See Annex A, section 7)

- 10.1 On completion of all work and once the Supplier has satisfied themselves that the Cutter is seaworthy, the seaworthiness will be demonstrated to the Authority who will provide an Acceptance Certificate (provided at Annex J) and confirm the hand back of the Cutter into the Authority's custody and responsibility. Where propulsion work has been undertaken, this shall include propulsion and manoeuvring trials measured against original trials data for comparison and include OEM service engineer alongside the supplier's own mechanical and electrical service engineers
- 10.2 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.
- 10.3 Where the Authority have engaged separate OEM(s), under \$ 6.2, these service engineer costs for attendance at Basin Trials will be funded by the Authority.
- 10.4 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 the Sea trials.

### 11.0 Certification and Survey Reports

- 11.1 All certification and survey reports required for regulatory compliance, or requested by the Authority, shall be supplied in hard copy enclosed in clear plastic envelopes within a four-ring ring binder, complete with index. An electronic copy of all certificates and survey reports shall also 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 Authority through the issuing of a Project Completion Certificate (Annex L).
- 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 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 The Supplier is to acknowledge that all travel and subsistence costs related to warranty defect repairs shall be recharged at the Home Office reimbursable travel and subsistence rates as stipulated in Annex L. Any additional costs outside those stated in Annex L are 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, serialised appropriately and signed off 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 those services 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.**

## 14.0 Information for Bidders

- 14.1 All submissions must contain the mandatory requirements as per §14.2.
- 14.2 Mandatory requirements that qualify the submission as compliant are;
  - 14.2.1 Where requested, the Bidder has submitted costs for all work line-items listed in Annexes A, B, C and D.
  - 14.2.2 Where applicable, the Bidder has acknowledged all note-items listed in Annexes A, B, C and D.
  - 14.2.3 Written acknowledgement, by the Bidder, to the Standard UK Government Short Form Terms and Conditions for Goods and Services (attached to the tender advert on the Contracts Finder portal reference) must be stated by the Bidder upon submission.
  - 14.2.4 Written acknowledgement upon submission, by the Bidder, that they have the correct insurance levels as stated in §2.1.1, §2.1.2 and §2.1.3.
- 14.3 Failure, by the Bidder, to adhere to §14.2 may result in the submission being considered non-compliant.
- 14.4 Any questions, queries or clarifications regarding this tender should be submitted by 12:00pm (midday) by Thursday 29<sup>th</sup> July 2021.
- 14.5 The Bidder offering the lowest compliant submission will be selected as the preferred Bidder for contract award.
- 14.6 All submissions should be submitted by 12:00pm (midday) on Friday 6<sup>th</sup> August 2021
- 14.7 The Authority reserves the right to withdraw this opportunity, for any reason, at any point, prior to contract award.



## Annex A: General Requirements of Work

Annex A	Description	Qty	DoQ	Description of Service	Acknowledgement/ Unit Firm Cost	Total Firm Cost
<b>1.0</b>				<b>Shore Power</b>		
<b>1.1</b>	Note	-	Each	The supplier must include all costs associated with providing unlimited electrical power to the vessel for the duration of the contract period.  Vessel electrical system uses 400-volt, 50 Hz, 63-amp, three phase shore power.		
	1.1.1	-	Each	Connection of shore power cable as required		
	1.1.2	-	Each	Disconnection of shore power cable required		
<b>2.0</b>				<b>Berthing</b>		
	Note	-	-	The Supplier is to include all costs associated with berthing and movements in the submitted quotation and provide the following for the entirety of the contract period.		
2.1	Alongside Berthing	-	-	The Supplier must provide appropriately sized, secure, alongside berthing, as required, during this period of works, with a minimum depth of 1m below Low Water Spring Tides at all times.		
2.2	Movements	-	-	The Supplier must facilitate any movements as required for the entirety of the contract period.		
2.3	Means of safe access	-	-	The Supplier must provide safe access to the vessel at all times and at all states of the tide when in the water by way of gangway access.		
<b>3.0</b>				<b>Third-party Costs</b>		
3.1	Use of third parties	-	-	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 their attendance.		





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3.2		Use of third parties	-	-	Where a requirement will be carried out by a third party, the Supplier must state in their bid that the third party is available and can complete the requirement as specified in the time period specified in this Statement of Requirements.		
4.0		<b>Disposal of Waste and Cleanliness</b>					
		Note	-	-	The Supplier is to include all costs associated with Disposal of Waste in the submitted quotation and provide the following for the entirety of the contract period. This includes but is not limited to the disposal of: petrol, diesel, oils, oily water, hazardous waste, general waste, coolant.		
4.1		Provision of waste disposal and cleanliness	-	-	The Supplier will be expected to clean any working areas, removing and disposing of any arisings and cleaning the work area on completion. All waste created during this project is to be disposed of in accordance with any and all applicable national and international regulations. The Supplier will return the vessel to its original state of cleanliness on handover.		
5.0		<b>Insurance</b>					
5.1		Cost of additional Insurance	1	ea.	If required, 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 following contract award.		
6.0		<b>General Provision</b>					
6.1		Project Management	1	ea.	The Supplier will appoint a Project Manager, as a single point of contact for the BFOO, for the duration of this requirement		
6.2		External Contractors	1	ea.	If required, 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, cramage, tools, removal and disposal of parts if required and costs incurred will be dealt with in the appropriate Annexes of this statement of requirement.		
6.3		Accommodation	1	ea.	During the contract period the Supplier shall provide reasonable office accommodation for use by the Authority at the site where the vessel is being worked on. All costs associated with this provision are to be at included in any quote/bid submitted by the Supplier to the Authority.		
6.4		Consumable Fixings	-	-	All minor consumable fixings, sealants etc required to carry out this requirement are to be at the expense of the Supplier		





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The Authority Maritime  
Contract Reference: C21467

6.5		Secure Storage	1	day	The Supplier is required to provide an appropriately secure storage area for any of the vessel's equipment should anything need to be removed.		
			1	hour			
6.6		Floor Protection	-	Ea.	All flooring and bulkheads/partitions in all domestic areas, including the Wheelhouse, which will be accessed by the Supplier's personnel or contractors, or Authority contractors, are to be provided with non-slip floor protection, up to ½ height of the partition, the use of brown paper or paper cardboard is not enough. Such protection will be replaced as necessary to ensure integrity throughout the project.		
7.0		<b>Trials</b>					
7.1		Trials	1	ea.	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.		



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

Annex B	Description	Qty	DoQ	Description of Service	Acknowledgement/ Unit Firm Cost	Total Firm Cost
<b>1.0</b>				<b>Requirements for Certification</b>		
1.1	Certification	-	--	All 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	Certification	-	-	All tasks are to be carried out by an approved examination test house, unless otherwise stated.		
1.3	Certification	-	-	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		
<b>2.0</b>				<b>Documentation</b>		
2.1	Documentation	-	-	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	Documentation	-	-	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	Documentation	-	-	Additionally, an electronic copy of all certificates and test reports shall be forwarded by e-mail to the Authority in .pdf format		
2.4	Documentation	-	-	All certificates and survey reports, as specified and required, are to be provided before the Acceptance meeting		
2.5	Documentation	-	-	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		
<b>3.0</b>				<b>Fire Fighting and Fire Detection</b>		



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		Note	-		These tasks are to be carried out by an approved Marine Fire and Safety Contractor. Supplier to arrange.		
3.1			-	-	Inspect, clean and function test the following Fire Detection System Detector Heads		
	3.1.1	Inspect, Clean and Test	25	Ea.	Smoke Detectors		
	3.1.2	Inspect, Clean and Test	1	Ea.	Flame Detector		
	3.1.3	Inspect, Clean and Test	1	Ea.	Heat Detector		
3.2					Function Test the following:		
	3.2.1	Test	12	Ea.	Call Points		
	3.2.2	Test	9	Ea.	Audible Alarm Units		
	3.2.3	Test	2	Ea.	Alarm Indicator beacons.		
3.3		Inspect and Clean	1	Ea.	Inspect the control panel Power Supply Unit (PSU), Batteries and connections: noting expiry dates. If batteries are within three months expiry date, they are to be replaced under the EW system.		
	3.3.1	Test	-	-	Fully function test the system including secondary power mode.		
	3.3.2	Record and Submit	-	-	Update test tally and submit formal tabulation of reading results.		
3.4			-	-	Service, Survey and Certify the Engine Room Fixed CO2 Extinguishing System as follows		
	3.4.1	Disconnect	-	-	Disconnect the Main CO2 cylinders from the system and insert blanks.		
	3.4.2	Inspect	-	-	Visually inspection the whole CO2 system.		
	3.4.3	Blow through	-	-	Blow through discharge pipe work system with clean air at a minimum pressure of at least 20 bar.		
	3.4.4	Check	-	-	Check the contents and levels of the 3 main 45kg CO2 cylinders and the operating cylinders.		
	3.4.5	Check	-	-	Check all flexible hoses for ageing.		
	3.4.6	Check	-	-	Check pilot bottle pressures are greater than 120 Bar and within 10% of one another.		
	3.4.7	Check			Function check of the pull handle to activate the cylinder valves, close valves, and check for leakage.		



	3.4.8	Fill	-	-	Fill CO2 manifold with (+/- 25 bar) from a CO2 test cylinder (Main valves closed, or sections sealed).		
	3.4.9	Test	-	-	Close and disconnect the CO2 test cylinder, check thread connections for leakage.		
	3.4.10	Check	-	-	Check operation of pressure gauge and blow through the CO2 pipe work with the CO2 gas in the manifold		
	3.4.11	Reconnect	-	-	On completion, re-connect / re-commission the system.		
	3.4.12	Recommission	-	-	Present the re-commissioned system to the BFOO for acceptance.		
<b>4.0</b>					<b>Fire Extinguishers</b>		
4.1		Note	-	-	Carry out annual inspection as per manufacturer's instructions for each item listed and Inspect all fire extinguishers as listed.		
	4.1.1	Inspect	8	Ea.	5 kg CO2 x 8		
		Test	7	Ea.	5kg CO2 10 yearly hydraulic pressure test		
	4.1.2	Inspect	7	Ea.	6 KG Dry Powder x 7		
		Test	5	Ea.	6 KG Dry Powder 10 yearly hydraulic pressure test		
	4.1.3	Inspect	2	Ea.	2 kg Dry Powder x2		
	4.1.4	Inspect	5	Ea.	9 litre Foam x 5 (3 require 10 yearly hydraulic pressure test)		
		Test	3	Ea.	9 litre Foam 10 yearly hydraulic pressure test		
	4.1.5	Inspect	2	Ea.	Fire Blanket x 2		
<b>5.0</b>					<b>Fire Hoses and Nozzles</b>		
5.1		Note	-	-	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.		
	5.1.1	Examine and Test	1	Ea.	20 metre 1 ½ diam. fire hose and nozzle (Aft Main Deck Port)		
	5.1.2	Examine and Test	1	Ea.	10 metre 1 ½ diam. fire hoses and 1 nozzle (Boat Deck)		
	5.1.3	Examine and Test	2	Ea.	10 metre 1 ½ diam. fire hose and 1 nozzle (Forward Main Deck)		
	5.1.4	Examine and Test	1	Ea.	15 metre 1 ½ diam. fire hose and 1 nozzle (Forward Machinery Space)		



	5.1.5	Examine and Test	1	Ea.	20 metre 1 ½ diam. fire hose (Forward Machinery Space).		
	5.1.6	Examine and Test	2	Ea.	10 metre 1 ½ diam. fire hoses and 1 nozzle (Engine Room)		
	5.1.7	Examine and Test	1	Ea.	20 metre 1 ½ diam. fire hoses and 1 nozzle (Port Main Deck Midships)		
<b>6.0</b>		<b>Breathing Apparatus Equipment</b>					
6.1			-	-	Carryout required maintenance, survey and testing of Breathing Apparatus Equip, as indicated:		
		Note	-	-	These tasks are to be carried out by an approved Draeger service agent.		
	6.1.1	Maintain, Survey & Test	3	Ea.	Drager PA90 plus (Annual survey and maintenance)		
	6.1.2	Maintain, Survey & Test	2	Ea.	Draeger CF10 EEBD (Annual survey and maintenance)		
	6.1.3	Maintain, Survey & Test	9	Ea.	9 litre carbon fibre BA cylinders (Annual survey and maintenance)		
	6.1.4	Maintain, Survey & Test	2	Ea.	EEBD air cylinders (Annual survey and maintenance)		
	6.1.5	Maintain, Survey & Test	3	Ea.	Sets Fireman's Equipment (jackets, trousers, flash hoods, helmets, lifeline)		
	6.1.6	Certify	-	-	Supply individual certificates for each item's annual survey and maintenance.		
<b>7.0</b>		<b>Life Jackets</b>					
7.1					Inspect, service and test inflatable lifejackets:		
		Note			These tasks are to be carried out by an MCA/ UK Flag State approved MRT service agent.		
	7.1.1	Inspect and Test	17	Ea.	Crewsaver Sea crusader SOLAS approved inflatable lifejackets, complete with McMurdo locating beacons, are to be Inspected, serviced, and tested		
	7.1.2	Inspect and Test	-	-	Replace CO2 inflation cylinders as necessary		



	7.1.3	Inspect and Test	17	Ea.	Issue individual certificates of inspection and test		
	7.1.4	Report	-	-	Report all defects found to the BFOO		
<b>8.0</b>					<b>Immersion Suits</b>		
8.1					Inspect, service and test inflatable immersion suits:		
		Note	-	-	These tasks are to be carried out by an MCA/ UK Flag State approved Crewsaver service agent.		
	8.1.1	Inspect and Test	20	Ea.	Crewsaver Immersion Suits are to be inspected, serviced, and tested		
	8.1.2	Inspect and Test	-	-	Issue individual certificates of inspection and test		
	8.1.3	Report	-	-	Report all defects to the BFOO		
<b>9.0</b>					<b>EPIRB</b>		
9.1			-	-	Inspect, service and test inflatable EPIRB:		
	9.1.1	Inspect and Test	-	-	Remove the EPIRB from the vessel and dispatch to approved service agent.		
	9.1.2	Inspect and Test	1	Ea.	Survey and Service EPIRB		
	9.1.3	Inspect and Test	-	-	Inspect EPIRB Hydrostatic release expiry date and if less than 1 year remains, renew EPIRB hydrostatic release unit and plastic retaining bolt.		
	9.1.4	Inspect and Test	-	-	Check EPIRB, if less than one year remaining, renew batteries as required.		
	9.1.5	Report	-	-	Issue a service report with a list of the test results and maintenance performed		
<b>10.0</b>					<b>Safety and Rescue Equipment</b>		
10.1		Inspect & Certify	1	Ea.	Inspect and Certify the 'Helicopter Strop' rescue sling.		
10.2		Inspect & Certify			Inspect and Certify the following personal Safety Harness equipment:		
	10.2.1	Inspect & Certify	2	Ea.	KRATOS full body harnesses		
	10.2.2	Inspect & Certify	2	Ea.	Seago safety lines.		
	10.2.3	Inspect & Certify	2	Ea.	Waist Harnesses		
	10.2.4	Inspect & Certify	4	Ea.	2m restraint lanyards		
	10.2.5	Inspect & Certify	1	Ea.	KRATOS two-point body harness		



	10.2.6	Inspect & Certify	1	Ea.	Saviour Technical stretcher		
10.3		Note	-	-	These tasks are to be carried out by a Soll approved GlideLoc / SALA Service Agent.		
		Inspect & Certify	1	No.	All fixed components of the GlideLoc Mast Installation		
	10.3.1	Inspect & Certify	2	Ea.	GlideLoc Fall Arrest Traveller		
	10.3.2	Inspect & Certify	1	Ea.	Fall Arrest Block		
	10.3.3	Inspect & Certify	2	Ea.	Work Positioning Strap		
10.4		Survey and Certify	-	-	Survey and Certify the following GlideLoc/SALA Mast Access Equipment personal safety equipment:		
		Note	-	-	These tasks are to be carried out by a Soll approved GlideLoc / SALA Service Agent.		
	10.4.1	Inspect & Certify	2	Ea.	Miller Full Body Harness to EN361 with back strap		
	10.4.2	Inspect & Certify	2	Ea.	Petzl climbers Helmet		
	10.4.3	Inspect & Certify	1	Ea.	AG 10 rescue kit including 30m rope and webbing straps		
	10.4.4	Inspect & Certify	2	Ea.	Inertia Lanyard		
10.5		Inspect and Certify	2	Ea.	Carry out thorough inspection of the brow safety net and issue certificate.		
10.6		Inspect and Certify	1	Ea.	Carry out thorough survey of the scrambling net (including the securing arrangement) and issue certificate.		
10.7		Inspect and Certify	1	Ea.	Carry out thorough survey of the Jason's Cradle SN JC008053, including captive slings and issue certificate.		
10.8		Inspect and Certify	1	Ea.	Carry out thorough survey of the Fiberlite frame and issue certificate.		
<b>11.0</b>		<b>Deck Equipment</b>					
		Note	-	-	All deck equipment to be tested/inspected under Lifting Operations and Lifting Equipment (LOLER) and MGN 332 regulations.		
<b>12.0</b>		<b>Emergency Anchor Recovery Equipment</b>					
		Note	-	-	The service is to be carried out by an approved test house whose details will be notified to the Authority with the submission of a formal quotation.		
12.1		Note	-	-	The following anchor recovery equipment is to be inspected, certified and where appropriate tested:		



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	12.1.1	Inspect, Certify and Test	1	Ea.	Tractel Turffer tackle block and wire 3200kgs SWL		
	12.1.2	Inspect, Certify and Test	1	Ea.	GS Double fall manual chain block x 6metres HOL 3000kg SWL		
	12.1.3	Inspect, Certify and Test	1	Ea.	Duplex polyester web belt sling terminating in a captive eyed latch hook one end only EWL 840 mm 3000 kgs SWL		
	12.1.4	Inspect, Certify and Test	1	Ea.	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		
	12.1.5	Inspect, Certify and Test	1	Ea.	16 mm diam. single leg wire rope sling terminating in soft eyes EWL 850mm 3000 kgs SWL		
	12.1.6	Inspect, Certify and Test	1	Ea.	1" Bow shackle 3750 kgs SWL		
	12.1.7	Inspect, Certify and Test	8	Ea.	Screw pin bow shackles		
<b>13.0</b>		<b>Emergency Towing Equipment</b>					
13.1		Note	-	-	The following emergency towing equipment is to be examined, certified and where appropriate tested:		
	13.1.1	Remove	-	-	Remove the 32mm x 200 metre 8 strand Multi-plait Towing Line and associated towing shackles from vessel		
	13.1.2	Inspect & Certify	1	Ea.	8 strand multi-plat Towing Line and load test the shackles		
	13.1.3	Inspect & Certify	4	Ea.	5.5 tonne D shackles		
	13.1.4	Inspect & Certify	3	Ea.	12 tonne bow shackles		
	13.1.5	Report	-	-	Report all defects found, with work recommendations, to the BFOO		
	13.1.6	Return	-	-	Return and re-store Towing Line and Towing Shackles onboard Cutter		
<b>14.0</b>		<b>RHIB Recovery and Securing Equipment</b>					
14.1		Note			Inspect and certify the RHIB recovery and securing equipment.		
	14.1.1	Inspect & Certify	1	Ea.	RHIB screw pin "D" shackle		
	14.1.2	Inspect & Certify	1	Ea.	RHIB wire rope sling		
	14.1.3	Inspect & Certify	1	Ea.	RHIB turnbuckle		
	14.1.4	Inspect & Certify	1	Ea.	RHIB quick release pin		
	14.1.5	Inspect & Certify	1	Ea.	RHIB 10mm connector		





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14.2		Inspect, Test and Certify	1	Ea.	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		
14.3		Inspect, Test and Certify	1	Ea.	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		
14.4		Inspect, Test and Certify	2	Ea.	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		
14.5		Inspect, Test and Certify	1	No.	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		
<b>15.0</b>		<b>Man Overboard Boat (MOB) System</b>					
		Note	-	-	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.		
15.1		Inspect and Maintain	1	No.	Carry out Annual Inspection and Maintenance of SEC MS2-7-40 MOB Davit.		
15.2		Inspect, Maintain and Certify	1	Ea.	Carry out Annual Inspection and Maintenance of Schat-Harding RRH15 MOB quick release hook.		
<b>16.0</b>		<b>Zodiac 4.2m Man Overboard Boat (MOB)</b>					
		Note	-	-	These tasks are to be carried out by an MCA or UK Flag State Zodiac approved service agent(s) whose details must be notified to the Authority with the submission of the formal quotation. Work on the Outboard Engine is to be conducted by an approved Yanmar service agent.		
		Note	-	-	On return the outboard is to be re-installed on the MoB.		
16.1		Service and Certify	1	Ea.	Remove MOB boat and send for service, survey and certification.		
16.2		Inspect & Certify	1	No.	Survey and Certify 4 leg lifting sling, shackles and links.		
16.3		Inspect & Certify	4	Ea.	Lifting points within the MOB		



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16.3		Service	1	Ea.	Remove MOB Boat 25hp Yamaha Long Shaft Outboard Engine and send for annual service as per manufacturer's instructions. All parts are Supplier supply		
16.4		Report and Certify	-	-	Issue service report, test, and survey certificates on successful completion of work		
<b>17.0</b>		<b>Miscellaneous</b>					
17.1		Test	2	Ea.	Radiation leak test Microwave Ovens located in galley and mess deck		
17.2		Service	2	No.	The onboard Oxygen therapy kits, including Oxygen cylinders, is to have its annual service carried out by an approved service agent		
17.3		Inspect, Test, Survey and certify	1	No.	Gangway Brow The gangway brow is to be inspected for weld/construction defects If item is satisfactory, a load deflection test of 450 kgs is to be conducted Test and survey certificates are to be supplied on successful completion		
17.4		Inspect and Certify	4	Ea.	Steering Chain Blocks located in steering flat		
17.5		Inspect and Certify	2	Ea.	Boarding Ladders The 2m Pilot Boarding ladder is to be dispatched to the manufacturer Messrs SWL Ropes and Rigging, Southampton (5.5.1) for annual survey. Carry out thorough inspection of ships Boarding ladder. On completion of successful test issue certificate.		



## Annex C: Vessel Maintenance Tasks

Annex C	Description	Qty	DoQ	Description of Service	Acknowledgement/ Unit Firm Cost	Total Quote Cost
	Note	-	-	Where it is stipulated in this Requirement 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.		
<b>1.0</b>				<b>Deck</b>		
1.1	Overhaul	-	-	Overhaul Raised Coaming water-tight hatches and replace hatch seals.		
	1.1.1 Replace	1	No.	Hatch Seals on Weather deck Fwd./Lower Deck Fwd. Accommodation.		
	1.1.2 Replace	1	No.	Hatch Seals on Weather deck / Waist Main Engine Room Access.		
	1.1.3 Replace	1	No.	Hatch Seals on Weather deck / Port Aft Peak Steering Compartment Access		
	1.1.4 Replace	1	No.	Hatch Seals on Weather deck / Stbd Aft Steering Compartment Access.		
	1.1.5 Test	-	-	On completion of all work, function test the hatches to prove security and water-tight integrity.		
<b>2.0</b>				<b>Main Engines: Caterpillar 3516B</b>		
	Note	-	-	Main Engine lubrication oil capacity is 405 litres (Castrol Vectron 15/40), Oil and Filters will be supplied by Authority. In addition to the work detailed herein, both main engines will be subject to annual maintenance tasks contracted separately by the Authority. Work under this requirement must be chronologically arranged to coincide with both the Supplier and Authority scope of work.		
2.1	Change	-	-	Change oil and filters on both Port and Stbd Caterpillar 3516B main engines		
2.2	Dispose	-	-	Existing main engine lubrication oil charge is to be pumped out and disposed of in accordance with extant regulations		
2.3	Renew	-	-	Renew the lubrication oil filters		



2.4		Replenish	-	-	Replenish the lubrication oil charge		
2.5		Change	-	-	Change the main engine fuel filters (only change the 5x main filters).		
2.6		Dispose	-	-	Cost for disposal of 1 cubic meter (m3) of lubricating oil in accordance with extant regulations		
3.0		<b>Main Engine Port and Starboard Reintjes WLS930 Reduction Gearboxes</b>					
		Note	-	-	This service is to be completed by an approved Reintjes service agent.		
		Note	-	-	Main Gearbox lubrication oil capacity is 90 litres (Castrol MHP 153), Lube Oil to be Authority supply.		
3.1			-	-	Annual external inspection		
	3.1.1	Inspect	-	-	Open the Inspection plates and carryout an internal inspection of the pinions and gearwheels in accordance with Reintjes WLS and WVS maintenance service routines		
	3.1.2	Test	-	-	Test all temperature and pressure shut down devices		
	3.1.3	Test	-	-	Test all sensors, inter-switches, and alarm systems for correct operation		
	3.1.4	Dispose	-	-	Existing gearbox lubricating oil charge is to be pumped out and disposed of in accordance with extant regulations		
	3.1.5	Renew	-	-	Renew the in-use lubricating oil filters (only change the in-use oil filter). To be supplied by approved Reintjes service agent.		
	3.1.6	Change	-	-	Change the sinter filters. To be supplied by approved Reintjes service agent.		
	3.1.7	Replenish	-	-	Replenish the lubricating oil charge		
	3.1.8	Report	-	-	On completion, a Reintjes Service Report is to be provided to the BFOO in both hard and electronic copy formats		
4.0		<b>Generators</b>					
		Note	-	-	BF to liaise directly with OEM for annual maintenance		
5.0		<b>Steering Gear Installation</b>					
		Note	-	-	There are two electronically linked Steering Gear installations each installation has two hydraulic pumps and consequently two starters.		
5.1		Inspect	-	-	Carry out visual and physical inspection of the Port and Starboard steering gear installations		
	5.1.1	Check	-	-	Hydraulic leaks.		
	5.1.2	Replace	-	-	Replace 10 x Hydraulic Hoses, with like for like specification		
	5.1.3	Check	-	-	Cylinders and rams for leakage		
	5.1.4	Check	-	-	Tightness / security of linkages and connection		



	5.1.5	Inspect	-	-	Inspect tank anti-vibration mounts		
5.2		Report	-	-	Inspection Report is to be provided to the BFOO in both hard and electronic copy formats		
<b>6.0</b>		<b>Bow Thruster</b>					
		Note	-	-	Filters are Authority supplied.		
6.1		Survey and Report	-	-	Survey the condition of the Bow Thruster flexible coupling element and the mounting bolts and report findings to BFOO.		
6.2			-	-	The following Bow Thruster hydraulic power pack hydraulic oil filters are to be changed		
	6.2.1	Replace	-	-	Filter Element No E26N - Offline Filter		
	6.2.2	Replace	-	-	Tank Top Return Filter H33O R20N		
	6.2.3	Replace	-	-	Tank Top Return Filter H160 R20		
6.3		Replace	-	-	Hydraulic power pack oil heat exchanger		
	6.3.1	Remove, Disassemble, Maintain and Inspect	-	-	Remove, clean, and inspect hydraulic power pack oil heat exchanger		
	6.3.2	Reassemble and Test	-	-	Reassemble using new seals and conduct pressure test.		
	6.3.3	Refit	-	-	Refit heat exchanger.		
<b>7.0</b>		<b>Emergency Fire Pump</b>					
		Note	-	-	This work is to be undertaken by an approved Lombardini service agent.		
7.1			-	-	50hr service on Lombardini Diesel Firefighting Pump Engine as per manufacturer's instructions for 250 hours.		
7.2			-	-	Service Report is to be provided to the BFOO in both hard and electronic copy formats.		
<b>8.0</b>		<b>Portable Salvage Pump</b>					
		Note	-	-	This work is to be undertaken by an approved Yanmar service agent		
8.1		Service	-	-	Carry out 50 Hour service on the Yanmar L48 4.8HP diesel engine as per manufacturer's instructions for 250 hours.		
8.2		Report	-	-	Service Report is to be provided to the BFOO in both hard and electronic copy formats		
<b>9.0</b>		<b>Separ Fuel Filters Fuel Oil System</b>					



		Note	-	-	Two (2) are in use and one (1) is on standby. Filters are Authority supplied.		
9.1			-	-	Three (3) engine SEPAR coalescer fuel filters are to be		
	9.1.1	Remove, Maintain and Inspect	-	-	Removed, disassembled, cleaned, and inspected.		
	9.1.2	Renew	-	-	Renew filter elements as necessary.		
	9.1.3	Refill and Replace	--	-	Refill with fuel oil when finished.		
10.0		<b>Domestic Water System</b>					
		Note	-	-	The Authority will supply any necessary replacements		
10.1			-	-	Hydrophore (BT) Fresh Water Hydrophore Unit.		
	10.1.1	Disconnect	-	-	Disconnect and drain the hydrophore.		
	10.1.2	Inspect	-	-	Inspect the hydrophore cylinder and rubber bladder.		
	10.1.3	Maintain	-	-	Remove the bladder, clean it with freshwater and sterilize it.		
	10.1.4	Inspect	-	-	Inspect the cylinder for excess corrosion, leaks, or damage.		
	10.1.5	Inspect	-	-	Inspect the bladder for damage, leaks, or signs of perishing: renew the bladder if necessary.		
	10.1.6	Re-connect	-	-	Re-pressurise the air space between the hydrophore cylinder and bladder to 0.2 bar.		
	10.1.7	Test and Report	-	-	On completion of all work re-commission the system and function test to the satisfaction of the BFOO and report details.		
10.3			-	-	Domestic Hot FW System:		
	10.3.1	Locate	2	No.	Daalder domestic fresh water calorifier Heaters (No.1 and No.2)		
	10.3.2	Inspect and Test	-	-	Inspect and Pressure Test Calorifiers (carry out pressure test to 5 bar for 15 minutes).		
	10.3.3	Inspect	-	-	Inspect for leaks and damage.		
	10.3.4	Test	2	No.	Check pressure setting of PRVs		
	10.3.4	Record	-	-	Supply local tallies to record the pressure and test date and issue ISO 9001 standard certificate of test for Calorifiers and PRVs.		
	10.3.5	Test and Record	-	-	Carry out and record insulation test on the 6 kW Heating elements in both calorifiers.		
	10.3.6	Report	-	-	Inspection Report is to be provided to the BFOO in both hard and electronic copy formats		
11.0		<b>Air Conditioning System</b>					
11.1		Replace	-	-	Replace the AC Compressor drier filling.		



11.2		Inspect	-	-	Inspect the condition of the V- belts driving the ventilation fan		
11.3		Measure and Adjust	-	-	Measure the deflection/tension of the v-belts and adjust as required.		
11.4		Inspect	-	-	Inspect refrigeration system pipework and system.		
11.5		Test and Report	-	-	Carry out function test and provide Inspection Report to the BFOO.		
<b>12.0</b>					<b>Electrical Distribution</b>		
		Note	-	-	Tasks for 12.6.1 – 12.6.8 to include: Insulation testing Continuity testing of earth bonding Function test of current overload devices Function test of anti-condensation heaters Motor bearing condition checks		
12.1			-	-	Check insulation readings on listed circuits.		
12.2			-	-	Check and record insulation readings on all circuits from the following locations:		
	12.2.1	Check and Record	-	-	Main switchboard (Engine Room) 415/240V 50Hz		
	12.2.2	Check and Record	-	-	P1 power/lighting distribution board (Engine Room) 415/240V 50Hz		
	12.2.3	Check and Record	-	-	P2 power/lighting distribution board (Forward Machinery Space) 415/240V 50Hz		
	12.2.4	Check and Record	-	-	L3 lighting distribution board (Main Deck Technical Room) 415/240V 50 Hz.		
	12.2.5	Check and Record	-	-	L4 lighting distribution board (Wheelhouse) 415/240V 50 Hz.		
	12.2.6	Check and Record	-	-	Central distribution board (Wheelhouse) 415/240V 50Hz.		
	12.2.7	Check and Record	-	-	AC plant distribution board (Forward Machinery Space) 415/240V 50 Hz		
	12.2.8	Report	-	-	Submit formal tabulation of reading results in the format of the attached Annex P.		
12.3			-	-	Shore Power Supply:		
	12.3.1	Inspect and Test	-	-	Inspect and Test Shore Power Connection Box and Cable		
	12.3.2	Report	-	-	Submit formal tabulation of reading results		
12.4			-	-	Earth Bonding:		
	12.4.1	Check	-	-	Check Earth Bonding of Shafts, Rudders and Stabilisers.		
	12.4.2	Report	-	-	Submit formal tabulation of reading results, in the format of the attached Annex P.		
12.5			-	-	Clean, Inspect and Test Starters and Motors for the following:		
	12.5.1	Maintain and Test	-	-	Anchor Windlass		



	12.5.2	Maintain and Test	-	-	Port and starboard capstans (2 in total)		
	12.5.3	Maintain and Test	-	-	MOB Boat Davit		
	12.5.4	Maintain and Test	-	-	Steering gear system pumps (4 in total)		
	12.5.5	Maintain and Test	-	-	Bilge/general service pumps (2 in total)		
	12.5.6	Maintain and Test	-	-	FW hydrophore pumps (2 in total)		
	12.5.7	Maintain and Test	-	-	AC pump		
	12.5.8	Maintain and Test	-	-	AC compressor		
12.6		Test	-	-	On completion of all work, restore power supply and function test to the satisfaction of the BFOO		
12.7		Report	-	-	Inspection Report is to be provided to the BFOO in both hard and electronic copy formats		
<b>13.0</b>		<b>240v Portable Appliances</b>					
13.1			-	-	Carryout and Document PAT on, approximately, 180 items of 240v Appliances.		
13.2			-	-	On completion of satisfactory test, label each appliance with a suitable identification label indicating:		
	13.2.1		-	-	Pass.		
	13.2.2		-	-	Date of Test and Initials of tester.		
	13.2.3		-	-	Submit formal tabulation of reading results.		
<b>14.0</b>		<b>Magnetic Compass, Lillie and Gillie SR-3</b>					
		Note	-	-	It is important that the spare compass is stowed inverted so that wear on the bearing is avoided.		
		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 vessel's Commander, when the vessel is fully operational with all equipment embarked.		
14.1		Inspect and Calibrate	-	-	Inspect and carryout compass Swing on the binnacle mounted Lilley and Gillie SR-3 magnetic compasses on the wheelhouse top.		
14.2		Inspect	-	-	Inspect the spare Lilley and Gillie SR-3 magnetic compass held in the messroom.		
14.3		Inspect and Calibrate	-	-	Inspect and carryout compass Swing on the binnacle mounted Lilley and Gillie SR-3 magnetic compasses on the wheelhouse top.		
14.4		Inspect	-	-	Inspect the spare Lilley and Gillie SR-3 magnetic compass held in the messroom.		





14.5		Issue	-	-	On completion of the compass swing issue a deviation card for the compass to the onboard crew and pass copies to the BFOO.		
15.0		<b>Super Chlorination of the Domestic Fresh Water System</b>					
		Note	-	-	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.		
15.1			-	-	Super chlorinate the Fresh Water Holding Tank.		
	15.1.1	Maintain	-	-	Open the fresh water holding,		
	15.1.2	Maintain	-	-	Carry out visual survey of the tank coating in conjunction with International Paints representative/BFOO		
	15.1.3	Maintain	-	--	Once the tank coating is acceptable, re-fit the holding tank lids, using new nitrile material gaskets		
	15.1.4	Maintain	-	-	Press up the holding tank with treated super chlorination mixture		
	15.1.5	Maintain	-	-	Run water through ALL taps, hoses, and shower heads: ensuring the super-chlorination concentrate levels are monitored and maintained		
	15.1.6	Maintain	-	-	De-chlorinate the freshwater tank: run through ALL taps, hoses, and shower heads.		
	15.1.7	Maintain	-	-	Drain down the system and the holding tank		
	15.1.8	Maintain	-	-	Super chlorinate the Fresh Water Holding Tank		
	15.1.9	Maintain	-	-	Re-fill up Fresh Water tank, take water samples of the onboard system and shoreside		
	15.1.10	Analyse	-	-	Submit samples for analysis of potability and legionary's disease		
	15.1.11	Certify	-	-	Provide a certificate of potability and no legionary present upon completion of satisfactory tests.		
16.0		<b>Painting</b>					
		Note	-	-	Painting and preparation to be completed in accordance with the attached International Paint Specification.		
16.1		Provide	-	-	The Supplier is to quote for 40 hours of painting work to be used as needed by the BFOO.		
17.0		<b>Mechanical Fitting</b>					
17.1		Provide	-	-	The Supplier is to quote for 40 hours of mechanical fitting labour to be used as needed by the BFOO.		



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Statement of Requirements  
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<b>18.0</b>		<b>Electrical Labour</b>					
18.1		Provide	-	-	The Supplier is to quote for 40 hours of electrical labour to be used as needed by the BFOO.		



## Annex D: Modifications and Defect Rectification

Annex D	Description	Qty	DoQ	Description of Service	Acknowledgement/ Unit Firm Cost	Total Quote Cost
<b>1.0</b>				<b>Anchor Windlass Overhaul Relieved KRA-E-16D</b>		
	Note	-	-	Authority to supply spares required 1.3.1 – 1.3.5		
	Note	-	-	BF to supply windlass main drum parts		
1.1	Maintain	-	-	The windlass is to be removed from the vessel.		
1.2	Maintain	-	-	Dismantle, clean, and grease all components.		
1.3	Maintain	-	-	Renew the following: -		
	1.3.1 Maintain	-	-	Brake band for a KS16D		
	1.3.2 Maintain	-	-	Brake rod RS1.		
	1.3.3 Maintain	-	-	Renew the lube oil charge and grease all components		
	1.3.4 Maintain	-	-	Brake block RB1		
	1.3.5 Maintain	-	-	Nut RM1		
<b>2.0</b>				<b>Seepex Black and Grey Water Pump</b>		
	Note	-	-	Seepex pump overhaul at Border Force cost under a separate contract, replacement pump to be supplied by BF.		
2.1	Overhaul	-	-	One Seepex Type 05-24 Black/Grey water discharge pumps are to be disconnected and dispatched for overhaul to; Messrs Seepex Ltd, Unit 3, Armtech Row, Houndstone Business Park, Yeovil BA22 8RW		
2.2	Replace	-	-	Replacement Seepex pump to be fitted and connected to Black/Grey water discharge system.		
<b>3.0</b>				<b>Windscreen Wiper Carriage Replacement</b>		
	Note	9	Ea.	Wynn Type C Windscreen wiper units to be supplied by BF.		

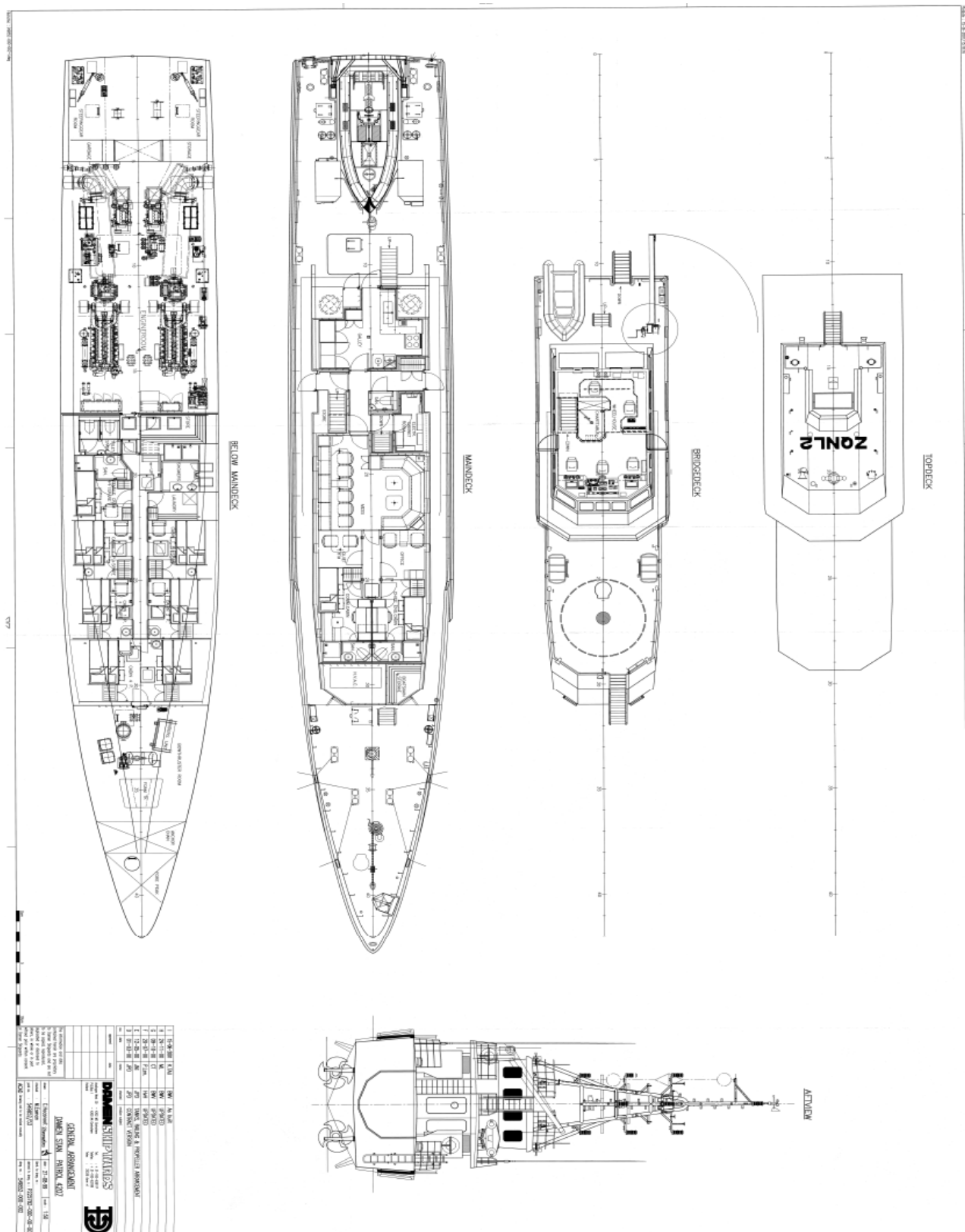


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3.1		Maintain	9	Ea.	The existing Wynn Type C Windscreen wiper carriages are to be replaced		
3.2		Maintain	-	-	Prepare and Paint all 9 wiper carriageway units in accordance with the International Paint specification, with		
	3.2.1	Paint	1	Coat	Undercoat		
	3.2.2	Paint	2	Coat	Topcoat		
3.3		Maintain	-	-	Isolate and Disconnect the internal 240 Ac motors from the carriageways		
3.4		Maintain	-	-	Remove the existing corroded wiper carriage units		
3.5		Maintain	-	-	Replace the wiper carriageways with the Border Force supplied, using new S/S fixing bolts and anti-corrosive paste on all threads and new Border Force supplied grommets		
3.6		Maintain	-	-	Connect electrical motors		
3.7		Test	-	-	Test to the satisfaction of the BFOO		
<b>4.0</b>		<b>Starboard Wheelhouse Door</b>					
		Note	-	-	BF to supply windowpane		
4.1		Maintain	-	-	Windowpane to be replaced		
<b>5.0</b>		<b>AC Cooling Water System</b>					
5.1		Maintain	-	-	AC cooling water pump isolation valve to be removed, overhauled and refitted.		
<b>6.0</b>		<b>CCTV Switcher Unit Located in Wheelhouse</b>					
6.1		Maintain	-	-	To be secured to engineer's console		
6.2		Maintain	-	-	New surround to be fabricated and fitted.		
<b>7.0</b>		<b>Shower/Toilet Unit Located on Accommodation Deck</b>					
7.1		Investigate	-	-	Investigate leak between shower tray drain to bilge and rectify defect. (Quote for approximately 30 hours of labour).		

## Annex E: General Arrangements





## Annex F: Vessel Details

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



## Annex G: Emergent Work Individual Item Proforma

Emergent Work (EW) Individual Item Proforma		 Border Force
EMERGENT WORK ITEM No: C21467		
<b>Description</b>		
Signed, BFOO:	Date:	
PART I: By Supplier		
The above item is accepted as a genuine Emergent work item.		
Our Firm Price is* <sup>Δ</sup> Our Realistic Estimate is* <sup>Δ</sup>	£	
Signed:	Position:	
	Dated:	
TIME PENALTY (if any) ..... The completion date of the contract* will/will not be affected by this item.		
PART II: By BFOO		
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:	
<b>Notes:</b> 1 * Delete as required 2 <sup>Δ</sup> If the costing of an EW task, upon further examination, is projected to vary by $\pm 10\%$ , 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

[illegible]





## Annex I: Handover Certificate

### HMC Valiant



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 Valiant 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 Valiant 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 Valiant

HMC Valiant having been removed from the water to perform maintenance tasks associated with contract C 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 the Authority.

**Signed:**

For and on Behalf of the Supplier:

**Print Name:**

Date:

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

☒ 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 BFOO:

**Signed:**

BFOO

**Print Name:**

Date:

#### PART III: Notes

Distribution

Original - Retained by the Supplier  
Copies to - BFOO



## Annex K: Project Completion Certificate

### Project Completion Certificate



Border Force

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

#### HMC Valiant

HMC Valiant, having completed contract C to the satisfaction of the Authority and having successfully completed any applicable trials and provided all documentation required under this requirement, Contract Number C21467 is this day offered as completed to the Authority.

**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 Valiant 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.

**Signed:**

Print Name / Post:

By BFOO:

HMC Valiant having completed contract C20490 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:**

BFOO

**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 - BFOO



## 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
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Additional miles over the initial 10,000	25p per mile
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Public transport rate	23.8p per mile
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### 2. Hotel rates

London	£125 per night
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All other locations other than London	£90 per night
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## Annex M: Paint Specification

Please see attached document.



## Annex N: Lubrication Specification

Document will be made available to the Supplier post contract award



## Annex O: Table of Readings

Document will be made available to the Supplier post contract award



## 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. Portable 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 and PPM Meeting Agenda

1. Attendees
2. Defects Outstanding
3. Certificates and Survey Reports
4. Certificates as per Annex P
5. Survey Reports per Annex R
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. The Authority Project Completion Certificate - Annex L
17. AOB

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



## Annex S: Basin Trials Report Form

Document will be made available to the Supplier post contract award



## Annex T: Sea Trials Report Form

Document will be made available to the Supplier post contract award



## Annex U: Stern Drawing details

Document will be made available to the Supplier post contract award



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