



**Border Force**

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

## **STATEMENT OF REQUIREMENTS**

**CPV ACTIVE - MAINTENANCE AND SAFETY  
EQUIPMENT RECERTIFICATION**

**APRIL 2021**

**C21069**



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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 berth with at least 1m depth below LWS at all times Complete with access by gangway/brow
BFOO	Border Force Overseeing Officer
Cardinal Date Plan (CDP)	A plan provided by the Supplier mapping out the significant dates for a project.
Coastal Patrol Vessel (CPV)	CPV ACTIVE
Collar	RIB Collars (also known as RIB Tubes or Sponson) are the inflatable section of a Rigid Hull Inflatable OR A polyurethane coated closed cell foam cored buoyant Collar offering similar properties.
Defect Rectification	Work undertaken to resolve any kind of defect identified and listed in the work package at Annex D.
Driveline	The CPV Driveline is the engines, water jets and drive shafts, and components used to connect these together.
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 with during this package of works.
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.



Phrase	Definition
Project Manager	A member of the Supplier's personnel who is responsible for the overall planning and execution of a project.
Progress Report	A report giving details of progress against the agreed CDP
Rectification Plan	A plan to rectify a specified defect, giving dates and reasons for relevant actions to effect full rectification of the defect.
Safe Working Load (SWL)	The maximum load a piece of equipment can safely operate under.
Slipway/Dry Dock	A Slipway or Dry Dock of suitable size, complete with dock blocks in accordance with a MTLU supplied docking plan and to the satisfaction of the Border Force Overseeing Officer complete with safe permanent means of access to the Vessel.
Spares	Unless specified as Border Force supplied; all spare parts required to complete an overhaul/maintenance/service including paint/anodes are for the Supplier to provide and include in their Quotation
Vessel	CPV ACTIVE
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 done and must be included in duration and price wise in the Quotation.
Yacht Designers & Surveyors Association (YDSA)	The UK's professional association for yacht surveyors and designers.



## 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 six CPVs are equipped and certified to comply with Maritime Coastguard Agency (MCA) MGN 280 (M) Small Vessels in Commercial Use for Sport or Pleasure, Workboats and Pilot Boats – Alternative Construction Standards, Category 2, for service in waters up to 60 nautical miles from a safe haven.
- 1.3 The primary roles of the CPVs 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 Agency, Police and UK Fisheries Agencies.
- 1.5 The CPVs were originally built by Delta MP as Autonomous Rescue & Recovery Craft (“ARRC”), for use as Search & Rescue (SAR) assets for operation in the North Sea and were recommissioned by Border Force in 2017/18.
- 1.6 The CPVs are built from a Fibre Reinforced Plastic (FRP) sandwich construction with hybrid buoyant foam / air filled Collar and an enclosed wheelhouse and mission space.

## Part 2: Insurance

### 2.0 Insurance

- 2.1 The Supplier must hold an in-date insurance certificate that clearly states the limit of liability to be no less than £5,000,000.00.
- 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.

## 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 CPV this requirement is to be undertaken inside the following geographical parameters;

- 4.1.1 UK Mainland between Holyhead and Firth of Clyde.

### 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 Monday to Friday and consists of five (5) working days.
- 5.7 For the purposes of this requirement, the working day is to be no less than any eight (8) hours period between 07:00am and 18:00pm
- 5.8 The Authority expects the duration of this requirement to be no longer than 10 working days.



- 5.9 The Supplier must be able to adhere to the following timeline;
- 5.9.1 accept, lift and berth the Vessel on, or before, the 03rd June 2021;
  - 5.9.2 start defect rectification and modification work immediately;
  - 5.9.3 start certification work not before the 14<sup>th</sup> June 2021; and
  - 5.9.4 ensure all work, either stated in this requirement or Emergent, is completed to the satisfaction of the BFOO and all signed certificates are passed to the BFOO no later than 25 June 21.

**NB: The supplier must have the facility to accept the vessel from Border Force on the 03 June 2021. The vessel will be handed over to the Supplier uncrewed. If required, the Supplier must be able to move the vessel from the storage location to MSER location without Border Force crew support. All costs for in or out of water storage on a daily and additional costs for vessel move are to be specified in the submission.**

## 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.
- 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 and dry 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 at their expense.





6.8 At the commencement of the MSER Period 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, whilst the vessel is in the water, whilst being lifted or ashore until the acceptance certificate (Annex J) is signed.

6.9 On completion of the MSER period the Acceptance Certificate (Annex J) will be signed by the Supplier and Authority representatives 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 / office arrangements;

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

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 into 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 CPV non-operational. The Supplier shall provide services to ensure the CPV 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 CPV. 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 CPV non-operational, the Supplier shall provide services to ensure the CPV 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 CPV. 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 three (3) crew members familiar with the navigational controls and engineering systems of the CPV during any trials.
- 10.2 On completion of all work and once the Supplier has satisfied themselves that the CPV 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 Following successful completion of all relevant tasks, applicable 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 to include the following information;
- 11.2.1 Name of the company undertaking the work. They need to be suitably qualified and experienced in undertaking the assurance work required. Many put their company logo and industry specific accreditation on the certificate.
  - 11.2.2 Name of the vessel;
  - 11.2.3 Description the test being conducted;
  - 11.2.3 Serial number and description of the equipment (where applicable);
  - 11.2.4 The name of the SQEP individual undertaking the test;
  - 11.2.5 Signature of the SQEP individual undertaking the test;
  - 11.2.6 Date the test was conducted; and
  - 11.2.7 Confirmation the test / inspection was a pass and or recommendations.

## 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 K).
- 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 Payment of project invoices will be withheld until all work is completed to the satisfaction of the BFOO in addition to all certification submitted in accordance with §11.0 and §5.9.1-5.9.4.
- 13.5 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.
- 13.6 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.
- 13.7 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 L. Any additional costs outside those in Annex L are to be strictly at the expense of the Supplier.
- 13.8 The Supplier is to ensure that every item of specified work has been completed in line with this Statement of Requirements or they have a formal acknowledgement from the BFOO allowing for non-completion.
- 13.9 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).
- 13.10 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

Annex A	Description of Asset	Qty	DoQ	Description of Service	Unit Firm Cost	Total Firm Cost
1.0				<b>Shore Power</b>		
1.1	Direct shore power			The supplier is to provide 240-volt 50 Hz 32-amp, Single phase shore power from grid/mains for the duration of the maintenance/LSA period.		
	1.1.1 Cost of shore power	1	£/kWh	Payment of electricity consumed will be covered under the Emergent Work process.		
2.0				<b>Berthing</b>		
	2.1 Supply of along-side berthing	1	as req	The Supplier is to be able to provide secure alongside berthing, as required, during this period of works, with a minimum depth of 1m below Low Water Spring Tides.		
	2.2 Cost of alongside berth	1	£/day			
	2.3 Cost of safe access	1	£/day	Suitable safe access is to be provided to the vessel at all times and at all states of the tide when in the water and a safe secured ladder or steps for access when out of the water.  Note: it is normal to step straight from a pontoon onto a CPV.		
3.0				<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 the attendance.		
4.0				<b>Disposal of Waste and Cleanliness</b>		
	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.		



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	4.2	Cost for disposal of petrol, diesel, oils, lubricants waste oily water.	1	Per Litre			
	4.3	Hazardous waste	1	ea.			
	4.4	General waste	1	ea.			
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.		
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, craneage, tools, removal and disposal of parts if required and costs incurred will be dealt with under the EW process		
	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 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		
	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.		
			-	-	Note: this storage area should not have a negative impact on the item(s) of the vessel's equipment that has been removed for storage.		



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7.0		Trials					
	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.		
Total quoted cost for Annex A exc. VAT.							





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

Annex B		Description of Asset	Qty	DoQ	Description of Service	Unit Firm Cost	Total Firm Cost
1.0		Life Saving Equipment					
	1.1	Inspection, Testing and Certification	5	ea.	Service portable fire extinguishers and provide itemised annual certification. Located; 1. Wheelhouse portside 2. Wheelhouse stbdside 3. Wheelhouse Chart table 4. Top of Stairwell 5. Main Deck aft		
		Inspection, Testing and Certification	2	ea.	Service portable fire extinguishers and provide itemised annual certification. Located; 1. Wheelhouse port 2. Mission space stbd side		
		Inspection, Testing and Certification	1	ea.	Service portable fire extinguishers and provide itemised annual certification. Located; 1. O/S Engine room		
		Inspection, Testing and Certification	1	ea.	Service fire blanket and provide itemised annual certification. Located; 1. Galley		
	1.2	Inspection, Testing and Certification	1	ea.	Lay out the 18m fire hose and pressure test the hose to 4 Bar. If test failure occurs, notify BFOO and submit EW request for supply of replacement. Provide certification for test, or C of C if new hose.  Inspect and functionally test firefighting Nozzle. If test failure occurs, notify BFOO and submit EW request for repair or replacement. Provide test certificate or C of C if replacing.		



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	1.3	Inspection, Testing and Certification	1	ea.	Carry out annual service and provide certification for all sections of the Hadrian Safety rail.  Note: Hadrian rail fitted around the upper deck to the superstructure at waist height on the Port and Stbd sides and short sections on the wheelhouse roof, engine room roof and 3 sections in front of the wipers. Static load test of 300Kn/300kg required horizontally from harness carriages at all critical points the on rail.		
	1.4	Inspection, Testing and Certification	1	ea.	Inspect and certify 4 lifejacket-to-traveller-Hadrian rail lanyards.		
	1.5	Inspection, Testing and Certification	1	ea.	Inspect and certify 2x working at height harnesses and associated lanyards.		
	1.6	Inspection, Testing and Certification	8	ea.	Carry out annual service on inflatable lifejackets and provide certification for (Crewsaver Seacrewsader 2010 275N).		
	1.7	Inspection, Testing and Certification	1	ea.	Approved fire safety contractor to undertake annual inspection and test of the fire detection system and provide certification.		
	1.8	Inspection, Testing and Certification	7	ea.	Undertake test of rock remote monitoring system sensors and confirm transmission to remote monitoring. (1x intruder, 1x smoke detector, 4x bilge).		
	1.9	Inspection, Testing and Certification	8	ea.	Undertake a 3-yearly test and re certification of Crew saver Immersion suits.		
<b>Total quoted cost for Annex B exc. VAT.</b>							



## Annex C: Vessel Maintenance Tasks

Annex C		Task	Qty	DoQ	Description of Service	Unit Firm Cost	Total Quote Cost
1.0		Hull					
	1.1	Vessel Maintenance	1	ea.	Lift the CPV from the water, using an in-date certified lift and appropriate safe process to reduce the stresses on the GRP hull to prevent damage occurring. Supplier to provide hull blocks to protect sponson from excessive load.		
	1.2	Vessel Maintenance	1	ea.	Pressure wash off the hull with fresh water and degrease.		
	1.3	Vessel Maintenance	1	ea.	Block off the hull, ensuring hull stresses are minimised.		
	1.4	Vessel Maintenance	1	ea.	Inspect the GRP hull for damage and advise the BFOO of the results and any recommendations for remedial work required.		
	1.5	Vessel Maintenance	1	ea.	Abrade the hull existing antifouling and apply two coats of International Interspeed 6400 Antifouling paint IAW international paint instructions and CPV paint scheme.  Supplier is to supply paint.		
	1.6	Vessel Maintenance	1	ea.	Replace the 2 main hull anodes and 4 sea chest anodes as per drawing at annex O of the SOR (CPV Anodes, Cathode Protection and Bonding - Document to be supplied separately).  Supplier to provide anodes.  Note: opening of the sea chest lid is required to undertake this task, labour and supply of a replacement seal is to be included. Anode studs / securing arrangements to be checked for security. Any additional work identified as required on the anode studs will be through the EW process.		



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	1.7	Vessel Maintenance	1	ea.	Inspect superstructure and deck, providing a report on structure and preservation condition and any remedial work recommended in accordance with the emergent work process.  Hull Inspection to the satisfaction of the BFOO to be conducted prior to launch.		
	1.8	Vessel Maintenance	1	ea.	Launch the CPV when required.		
<b>2.0</b>		<b>Sponsons</b>					
	Note				In order to undertake the sponson pressure test, specified below, and any subsequent repair identified as required, the vessel is to be in a suitable environmentally controlled facility.		
	2.1	Vessel Maintenance	1	ea.	Survey of the sponsons, including anti-slip, rubbing strakes and integrity of attachments		
	2.2	Vessel Maintenance	1	ea.	Survey of the sponson attachment to GRP hull landing, including soap tests to seams.		
	2.3	Vessel Maintenance	1	ea.	Carry out sponson air compartment air test to 120% of the working pressure for 30 minutes (2 psi).		
	2.4	Vessel Maintenance	1	ea.	Inflate all compartments to the working pressure (1.65 psi), record ambient temperature. After 24 hours check working pressure has not dropped taking ambient temperature change into account.		
	2.5	Vessel Maintenance	1	ea.	Survey all sponson inflation valves and identify to the BFOO any valves that are defective.		
	2.6	Vessel Maintenance	1	ea.	A satisfactory inflation test certificate is required to be provided to the Authority suitable for Class 2 use under MGN 280 4.5.3. Stating the above has been achieved.		
<b>3.0</b>		<b>Cooper Bearings</b>					
	3.1	Vessel Maintenance	4	ea.	Conduct visual inspection of the seal housings and report findings.		
	3.2	Vessel Maintenance	1	ea.	All retaining fittings are to be checked for appropriate tightness to retain cooper bearings in position.		
<b>4.0</b>		<b>Drive Shafts</b>					
	4.1	Vessel Maintenance	2	ea.	Inspect the two drive shaft drive units and report findings;		
	4.2	Vessel Maintenance	1	ea.	All retaining fittings are to be checked for correct torque values. (Carbon Shaft section M10 Allen bolts 40nm, all other fixings IAW supplied CENTRA installation manual).		



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<b>5.0</b>		<b>Couplings</b>					
	5.1	Vessel Maintenance	1	ea.	Inspect all couplings for cracking, chipping or damage to the corrosion prevention coating found at the flange ends and report findings;		
<b>6.0</b>		<b>Black Water System</b>					
	6.1	Vessel Maintenance	1	ea.	Flush and disinfect the system.		
	6.2	Vessel Maintenance	1	ea.	Carry out a functional test of system, including correct operation of the level indication system, identifying any leaks or issues to the BFOO.		
<b>7.0</b>		<b>Anchor Windlass</b>					
	7.1	Vessel Maintenance	1	ea.	Conduct an annual inspection and provide a written report on the findings. Load test the anchor windlass to 1.2x the SWL and provide certification (180KG Dynamic and 600kg static).  Certification required.		
<b>8.0</b>		<b>AFT Sampson post mounting structure and securing arrangements.</b>					
	8.1	Vessel Maintenance	1	ea.	Undertake an annual inspection and provide a report on the findings, including any remedial work recommended under EW action prior to undertaking a 2-tonne load test pulled from directly astern of the vessel on completion.  Certification required.		
<b>9.0</b>		<b>Fwd. securing post and mounting structure</b>					
	9.1	Vessel Maintenance	1	ea.	Conduct an annual inspection and provide a report on the findings to the BFOO. Certification required that it is safe to use.		
<b>10.0</b>		<b>240-volt AC distribution.</b>					
	10.1	Vessel Maintenance	1	ea.	Carry out electrical system inspection, including the accompanying insulation tests.  Provide a report with recommendations, test results and certification.		
<b>11.0</b>		<b>24-volt DC distribution.</b>					
	11.1	Vessel Maintenance	1	ea.	Carry out electrical system inspection, including the accompanying insulation tests.  Provide a report with recommendations, test results and certification.		



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<b>12.0</b>		<b>Shore power cable and connection system.</b>					
	12.1	Vessel Maintenance	1	ea.	Carry out electrical system inspection, including the accompanying insulation tests.  Provide a report with recommendations, test results and certification.		
<b>13.0</b>		<b>Portable Appliance Testing</b>					
	13.1	Vessel Maintenance	15	ea.	Undertake PAT testing on up to 15 items identified by the BFOO.  Provide a report with recommendations, test results and certification. All individually tested items to be appropriately marked.		
<b>14.0</b>		<b>Battery banks</b>					
Note					Port, Stbd, emergency, Hamilton jet control and generator start battery.		
	14.1	Vessel Maintenance	1	ea.	Undertake battery capacity tests on all battery banks.  Provide a report with recommendations, test results and certification. Failed battery exchange recommendations to be discussed with BFOO under EW process.		
<b>15.0</b>		<b>Microwave oven</b>					
	15.1	Vessel Maintenance	1	ea.	Carry out radiation test and certify.		
<b>16.0</b>		<b>Onan 7MDKDL 240-volt AC alternator</b>					
	16.1	Vessel Maintenance	1	ea.	800-hour service by an approved service agent (Full service, including all tasks up to and including 800 hr requirement IAW manufacturer's schedule provided).		
	16.2	Vessel Maintenance	1	ea.	Alternator winding, insulation test carried out and reading supplied in writing to the BFOO.		
<b>17.0</b>		<b>Fresh water tanks</b>					
	17.1	Vessel Maintenance	1	ea.	Open and inspect fresh water tanks, clean as necessary, carry out super chlorination process of the fresh water system to 50PPM, including holding tanks, pipework, calorifier, taps etc, flush and conduct potable water biological test, including legionella test on galley tap, providing potable water certification on completion (total tank capacity 274 Litres).		
<b>18.0</b>		<b>Manual and Electric Bilge Pumps, Alarm and Sounder</b>					



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	18.1	Vessel Maintenance	1	ea.	Check operation and undertake a functional test of all manual and electric bilge pumps and bilge alarms. Written confirmation of test results to be provided to the BFOO.		
<b>19.0</b>		<b>Engine room located calorifier</b>					
	19.1	Vessel Maintenance	1	ea.	Carry out pressure test to 1.5x the working pressure on the pressure vessel and provide certification to the BFOO.		
	19.2	Vessel Maintenance	1	ea.	Remove the safety valve, carry out a functional test and certify or replace with new certified valve. Provide certification to the BFOO.		
<b>20.0</b>		<b>NOVEC 1230 fixed firefighting systems and fire pump.</b>					
	20.1	Vessel Maintenance	1	ea.	Approved fire safety contractor to carry out an annual service of the fixed firefighting system and provide a system inspection report and certification on completion. To comprise of; 1. Pressure check. 2. Liquid Level check. 3. Remote pressure monitoring indicator check. (Green lit LED on Wheelhouse console). 4. System Inspection report and certification required on completion. 5. Functionally test and certify manual fire pump.		
<b>21.0</b>		<b>Domestic Air Condition System</b>					
	21.1	Vessel Maintenance	1	ea.	Conduct an annual service on the Wheelhouse and Accommodation Air Conditioning units. To comprise of; 1. Remove and clean the return air filters, dry and replace. 2. Open up and clean the reversing valve, inspect and replace. 3. Electrically isolate the system, disconnect the inlet and outlet connections to the condenser coil and undertake a chemical clean of the condenser and saltwater pipework. Flush, reconnect and check for leaks on completion. 4. Reconnect the system and carry out both a heating and cooling function test on completion when the vessel is afloat, demonstrating correct functionality of both upper and lower systems to the BFOO.		
<b>22.0</b>		<b>Ebershacer Model D4 Autronic Oil Fired Diesel Heaters</b>					
	22.1	Vessel Maintenance	2	ea.	Undertake an annual service and provide a report of service/certification to be provided on completion.		



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23.0		Hamilton Water Jet System (HM521)					
Note					<p>Changing the tailpipe anodes requires removal of the reversing duct, Steering Nozzle, tailpipe and associated linkages. This task is only to be undertaken by a contractor competent in this task who has worked on 521/521A jets previously and is to include competence setting up of the control linkages and commissioning the jets post removal, or the OEM/OEM approved agent is to be used to undertake this work.</p> <p>All Anodes will be supplied by Border Force.</p> <p>The additional seals required for reassembly of the tailpipe, nozzle and bucket post removal, including the mechanical linkage transom seals will be supplied by Border Force.</p> <p>All 4 Border Force supplied mechanical seals for where mechanical control linkages pass through the transom are to be changed.</p> <p>Whilst jet tailpipe is removed, cutlass bearings are to be inspected for wear and report provided, any remedial work on Cutlass bearings will be undertaken through the EW process.</p>		
	23.1	Vessel Maintenance	1	ea.	Undertake a thorough inspection of the Hamilton water jet system and report the findings on any defects / remedial work recommended.		
	23.2	Vessel Maintenance	1	ea.	Undertake annual hydraulic pack oil and filter change. (BF supply oil and filters)		
	23.3	Vessel Maintenance	1	ea.	Undertake annual bearing oil change. (BF supply oil).		
	23.4	Vessel Maintenance	1	ea.	Change all Jet anodes IAW the drawing supplied, including the 4 sited internally within the tailpipe (Part 203127).		
	23.5	Vessel Maintenance	1	ea.	Undertake jet linkage greasing routines.		
	23.6	Vessel Maintenance	1	ea.	Impeller Tip clearance measurements are to be taken during the internal anode replacement and readings provided in writing.		





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	23.7	Vessel Maintenance	1	ea.	Prepare and antifoul the jets externally with Trilux 33 (black). Allow approximately 7m <sup>2</sup> .  Supplier to provide paint.		
	23.8	Vessel Maintenance	1	ea.	Prepare and antifoul internally any jet components removed to facilitate internal anode replacement. Allow approximately 11.4 m <sup>2</sup> .  Supplier to provide paint.		
	23.9	Vessel Maintenance	1	ea.	Post flood up, the jets are to be commissioned and calibrated by the OEM Hamilton Jet and full functionality demonstrated with OEM in attendance to the overseer at a basin trial and sea trial.		
<b>24.0</b>		<b>Hull Valves</b>					
	24.1	Vessel Maintenance	1	ea.	The following stainless-steel main sea inlet valves are to be removed, overhauled, leak tested and proven free to move; 1. 2x 3" Ball valves main engine inlets. 2. 1x 2" Ball valve Generator supply		
	24.2	Vessel Maintenance	1	ea.	The following additional hull valves are to be tested for watertight integrity and confirm that they are free to move, including correct functioning of any remote operating device; 1. 1x Air conditioning SW inlet valve. 2. 2x Air conditioning SW discharge valves. 3. 1x 2" Ball valve Black water discharge valve. 4. 1x manual fire pump sea inlet valve.		
	24.3	Vessel Maintenance	1	ea.	The following Non return valves are to be removed and tested to be functioning in accordance with manufacturers direction and to the satisfaction of the BFOO; 2x Air conditioning system discharge valves.		
<b>25.0</b>		<b>Annual MCA Survey and Certification</b>					
	26.1	Vessel Maintenance	NA		Border Force will arrange a surveyor to attend during the second week of the MESR at Border Force's expense.		



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Total quoted cost for Annex C exc. VAT.	
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## Annex D: Modifications and Defect Rectification

Annex C	Task	Qty	DoQ	Description of Service	Unit Firm Cost	Total Quote Cost
1.0	Modification and Defect Rectification	1	ea.	Remove old seized anchor chain locker drain valve and fit Border Force supplied replacement valve. Replacement valve being supplied is of same type as the one being removed. See picture 1 below for details.		
2.0	Modification and Defect Rectification	1	ea.	Broken hinge on Fuel filling point hinged cover (Located Port aft superstructure). Plastic hinged cover, including surround to be replaced. Supplier to provide replacement parts and install. Picture 2 refers.		
3.0	Modification and Defect Rectification	1	ea.	Forepeak circular hatch seal degraded and requires replacement. Supplier to provide replacement seal and install. Seal length approximately 2.04 m.		
4.0	Modification and Defect Rectification	1	ea.	Port main engine fuel filter body securing fixing to engine is loose and the bolt inaccessible to the crew with the basic tools they have. The fixing is to be fully secured; access may require removal of fuel pipework.		
5.0	Modification and Defect Rectification	1	ea.	Port main engine alternator belt adjustment rod corroded and seized. Unseize and lubricate or replace corroded components as required to rectify prior to adjusting belts to correct tension. Engine CAT C18 Serial number CKH00856. Photograph attached below.		
6.0	Modification and Defect Rectification	1	ea.	Port engine driven auxiliary pump mounting and adjusting plate corroded and seized. Mounting plate, adjusting mechanism and pulley needs to be removed, preserved and seized components replaced or preserved so the system is functional to adjust the belts. Belts to be adjusted to correct tension on completion. Photograph attached below.		
7.0	Modification and Defect Rectification	1	ea.	Port aft seat base degraded as per photograph, expanded polystyrene base broken at edge and seat cover coming away. Repair required to prevent further degradation of seat base. See picture below.		



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8.0	Modification and Defect Rectification	1	ea.	Minor bend and bolt missing from Stbd side of Hadrian Rail. To be investigated and rectified prior to recertification at Annex B ITEM 3.3.		
9.0	Modification and Defect Rectification	1	ea.	Lower Domestic Air conditioning unit not functioning. Control panel displaying 3 green flashing LEDs. To be investigated and rectified prior to undertaking servicing at Annex C item 9. This will require investigating prior to the vessel coming out of the water, or a temporary saltwater supply rigging to test. Picture of control panel below. Control panel also loose in bulkhead and is to be re secured on completion.		
Total quoted cost for Annex C exc. VAT.						



Defect 1 picture. Anchor locker drain valve



Defect 2 picture. Broken fuelling point cover



Picture defect 3. Forepeak hatch seal.

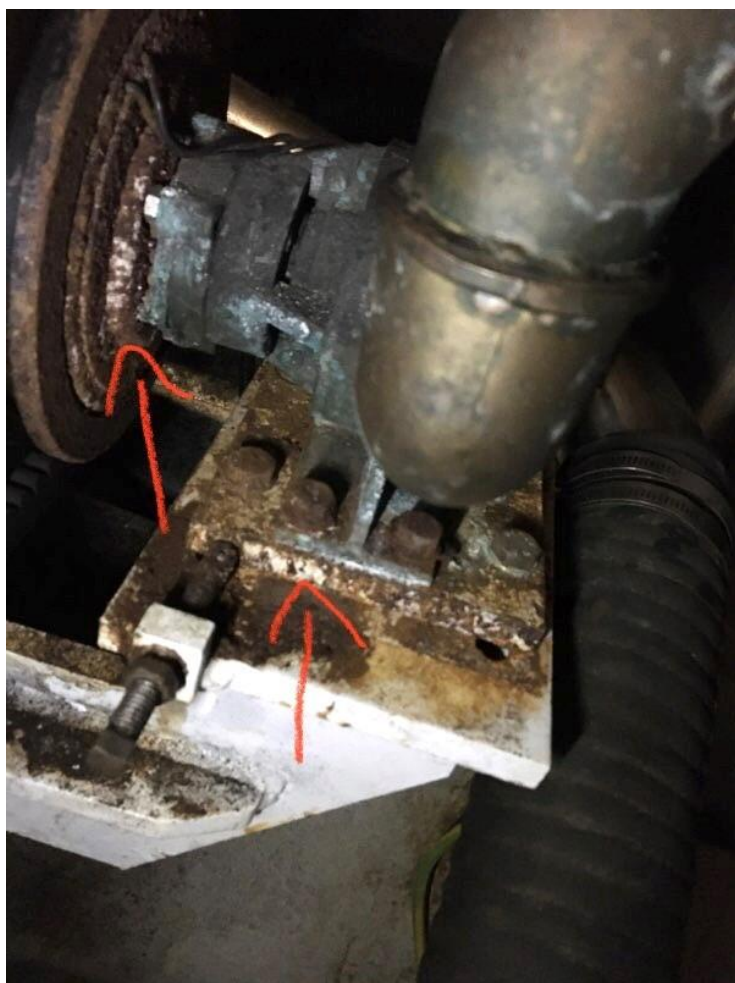


Picture defect 5. Sized alternator adjustment rod.





Picture Defect 6. Seized and corroded port auxiliary engine driven pump mounting and adjusting plate.



Defect 7 picture. Degraded seat base



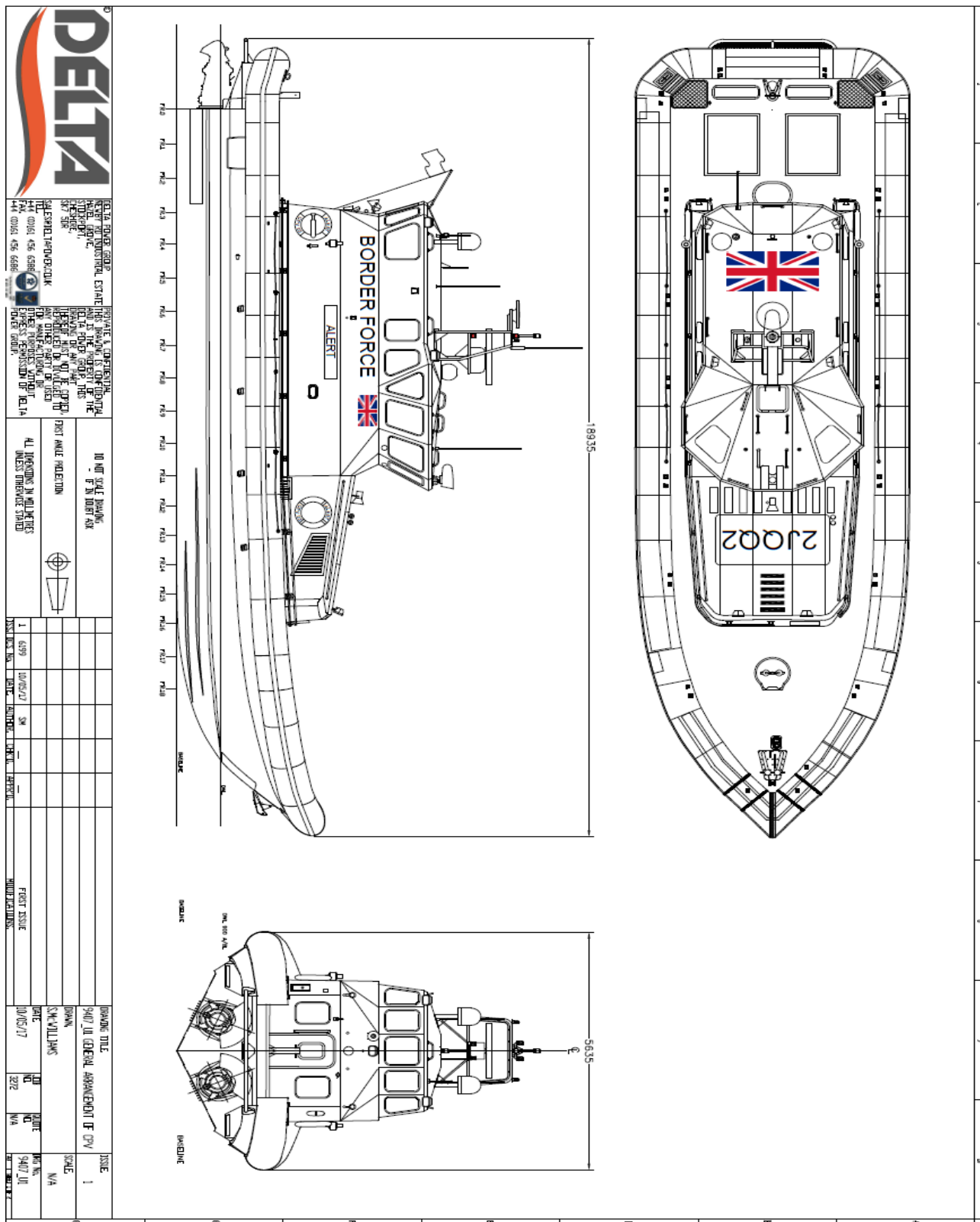




Defect 9 picture. AC control panel.

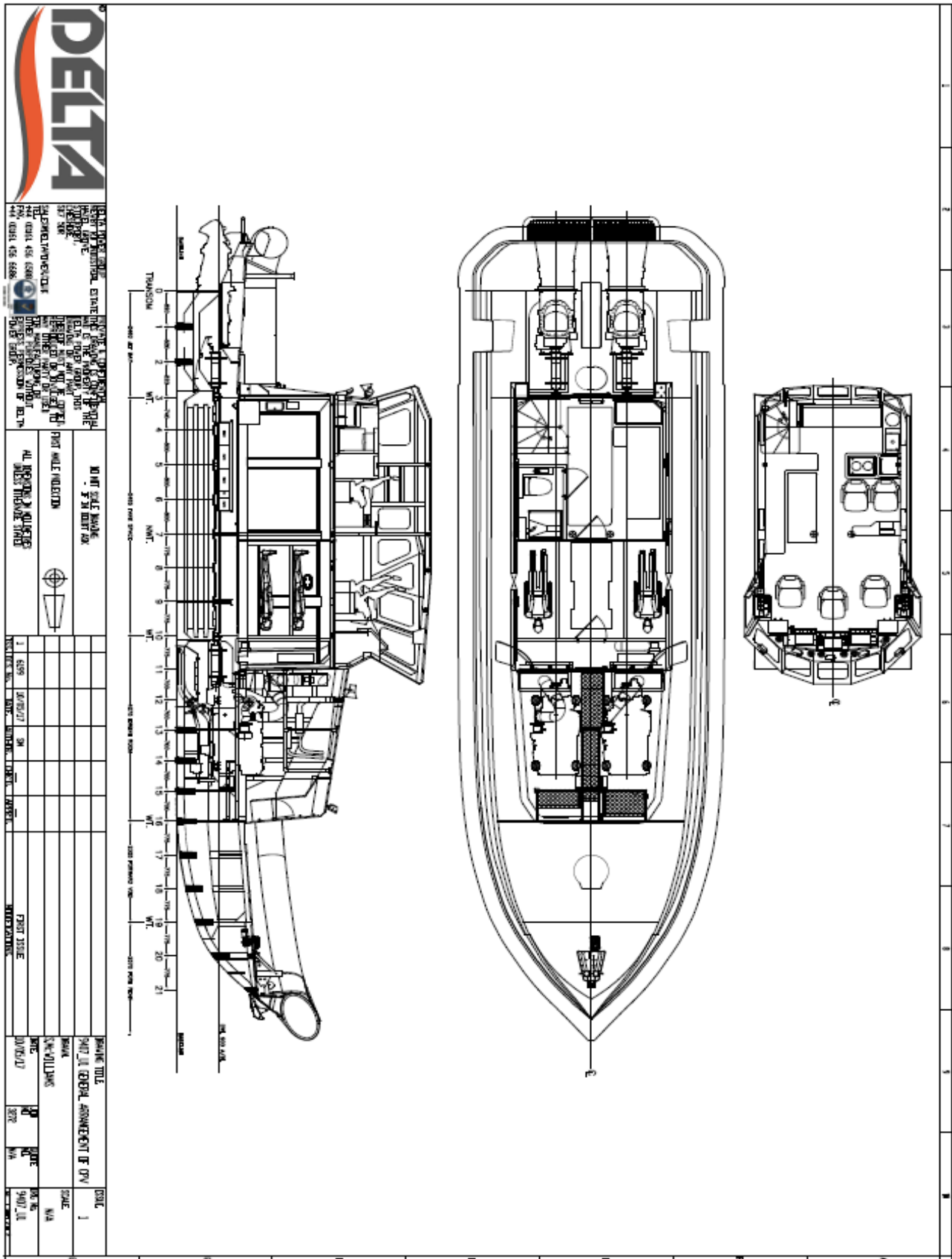


## Annex E: General Arrangements






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## Annex F: Vessel Details

 Border Force	Name	MMSI	Callsign
	CPV EAGLE	235118128	2JQP8
	CPV NIMROD	235118129	2JQP9
	CPV ALERT	235118131	2JQQ2
	CPV ACTIVE	235118132	2JQQ3
	CPV HUNTER	235118133	2JQQ4
	CPV SPEEDWELL	235118134	2JQQ5
<b>Length overall (LOA)</b>	18.80 m including the Collar, waterjet and its guard		
<b>Length Rigid Hull</b>	16.75 m		
<b>Length waterline (LWL)</b>	15.49 m		
<b>Beam Overall</b>	5.60 m		
<b>Beam Moulded Hull</b>	5.22 m		
<b>Draught aft full load</b>	0.96 m		
<b>Ht Overall USK to mast</b>	7.42 m (approx.)		
<b>Displacement</b>	c31.1 tonne		
<b>Construction</b>	FRP (fibre reinforced plastic)		
<b>Main Engines</b>	Twin Caterpillar C18 Marine diesel engines rated output 876 bhp / 644 kW @ 2,200 rpm each. (Total 1,752 bhp / 1,288 kW) Emergency rating 1,000 bhp (747 kW) @ 2,300 rpm		
<b>Gearbox</b>	ZF 550 reduction ratio 1.5:1		
<b>Propulsion</b>	Twin Hamilton HM 521A Waterjets		
<b>Speeds</b>	28 knots Cruising 34 knots emergency sprint speed in suitable seas		
<b>Manoeuvrability</b>	Manoeuvrability at all speeds is good		
<b>Range / Endurance</b>	(See Section 11: Fuel, Speed, Range.)		
<b>Fuel</b>	Design fuel load 3,424 litres. Max Fuel capacity 3,750 litres.		
<b>Fuel Consumption</b>	At Max rated power 195.6 litres / hour		
<b>Fresh water</b>	270 litres		
<b>Black Water</b>	71 litres		
<b>Accommodation</b>	4 berths FOC		
<b>Domestic Arrgts</b>	Small Galley, Combined shower and heads (Wheelhouse deck IOC Main Deck FOC)		
<b>Crew Seating</b>	5 Wheelhouse seats		
<b>Mission Space</b>	IOC. An open compartment accessed from the main deck level provides non-formatted mission space to accommodate up to 23 persons in addition to the crew. FOC separate compartment containing 4 x Bunk accommodation in Fwd. section of mission space.		



## Annex G: Emergent Work Individual Item Proforma

<b>Emergent Work (EW) Individual Item Proforma</b>		 <b>Border Force</b>	
<b>EMERGENT WORK ITEM No: C21069</b>			
<i>Description</i>			
Signed, BFOO:		Date:	
<b>PART I: By Supplier</b>			
The above item is accepted as a genuine Emergent work item.			
Our Firm Price is*		£	
Our Realistic Estimate is*			
Signed:		Position:	
		Dated:	
TIME PENALTY (if any) ..... The completion date of the contract* will/will not be affected by this item.			
<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.			
The Above Firm Price/Realistic Estimate* of £		ACCEPTED	REJECTED
Signed:		Date:	
<b>Notes:</b> *- Delete as required  All interactions pertaining to Emergent Work are to be carried out strictly in accordance with § 9.0.			

## Annex H: Emergent Work item Record Spreadsheet

[illegible]



## Annex I: Handover Certificate

### CPV ACTIVE



Border Force

This Handover Certificate is to be duly signed by a representative of the Authority and the Supplier for the aforementioned vessel at commencement of the Maintenance and Safety Equipment Recertification Period.

Immediately upon signing this Handover Certificate, the Supplier accepts responsibility for the safe custody of CPV ACTIVE until they are issued with an Authority-signed Acceptance Certificate.

Statement of Condition issued by (BFOO):

CPV ACTIVE 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



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**Annex J: Acceptance Certificate**

**Acceptance Certificate**



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PART I: to be completed by Supplier

**CPV ACTIVE**

CPV ACTIVE has completed her Planned and agreed Emergent Work tasks associated with contract C21069 to the satisfaction of the BFOO and is in a seaworthy condition ready to undertake sea trials, and, 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 acceptance of CPV ACTIVE and have satisfied myself that all systems, machinery, and equipment are working satisfactorily. I have inspected the CPV 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: 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 L: Carbon Centre Disc Assembly & Operation M034-0003-EN

Document Supplied Separately



## Annex M: Jet Anodes 521

Document Supplied Separately



## Annex N: CPV Anodes, Cathode Protection and Bonding

Document Supplied Separately



## Annex O: MDKBL Cummins Onan Service

Document Supplied Separately



## Annex P: 19m GRP Patrol Boat Tech 110416. CPV Paint Scheme

Document Supplied Separately



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