CPCO
Comité des Pêches du Centre Ouest du Golfe de Guinée

FCWC
Fisheries Committee for the West Central Gulf of Guinea

FISHERIES COMMITTEE FOR THE WEST CENTRAL GULF OF GUINEA (FCWC)

TENDER DOCUMENT

FOR

PROCUREMENT OF MARINE PROTECTED AREA (MPA) MONITORING EQUIPMENT FOR FCWC UNDER MARECOPLAN

September 2026

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Section I. Invitation for Sealed Quotation

Name of Contracting Authority: ***Fisheries Committee for the West Central Gulf of Guinea (FCWC)***

Address of Contracting Authority: ***P. O. Box BT 62, Tema***

Sealed Quotation No: **FCWC-CPCO-IUCN/OP/2026/002**

Date of Invitation: *23rd September 2026*

1. The ***Fisheries Committee for the West Central Gulf of Guinea, Ghana*** invites sealed quotations from eligible registered Suppliers for the supply, delivery, installation and commissioning of the following items;

Lot No.	DESCRIPTION OF ITEM	QUANTITY
1	SCUBA Gear & Snorkel Kits	1 Set
	Underwater Cameras / ROVs	1 Unit
	Plankton Samplers	1 Unit
	Multiparameter Water Quality Probes	10 Units
	Nutrient Test Kits	1 Kit
	Fish tagging kits	10 units
2	GPS Units	2 Units
	Drones with Multispectral Cameras	1 Unit
3	Desktop Computer	3 Units
	Laptops	3 Units
	Tablets for data collection	10 Units
4	Measuring Board	3 Units
	Weighing Scale	6 Units

- **Lot 1** - Marine Survey and Scientific Monitoring Equipment
- **Lot 2** - Navigation, Surveillance and Enforcement Equipment
- **Lot 3** - ICT and Field Data Collection Equipment
- **Lot 4** - Fisheries Sampling and Measurement Equipment

* **Tenderers can bid for any combination of lots**

2. Sealed quotations must be delivered to the above office on or before ***10h00*** **on** ***20 October 2026.*** *In addition to the sealed quotations,* ***Company profile (showing 3 supplies in the past of similar scope and quantities), Company Registration, Certificate to Commence Business and Tax Registration.***

3. Tenders shall be valid for ***60 days*** from the date of tender submission and should be submitted with a **bid securing declaration (eg. on pages 13 & 14)**

4. Quotation for the goods may be in Ghana Cedis (GH₵) or in any other convertible currency.

5. Tenders will be evaluated using the following criteria:

a. Delivery and validity period
b. Conformity to technical specifications
c. Price

6. Sealed quotations will be opened in the presence of Supplier's Representatives on **20th October 2026** at **10:00 am**, Additionally, absent tenderers can request copies of the opening document which would be available to be collected at any time before the expiry of the validity at the Fisheries Committee for the West Central Gulf of Guinea, 4th Floor of Fisheries Scientific Survey Division (FSSD), Community 2, Tema.

7. Your attention is being drawn to section 9.2 of this document which states that payment for the goods shall be made after delivery and acceptance of the goods to the satisfaction of the Contracting Authority**.** The delivery period is **six weeks** after contract signature.

8. The successful bidder shall, within fourteen (14) days of notification of award, furnish a **performance security** in the form of an **unconditional and irrevocable performance bond or bank guarantee**, issued by an institution acceptable to FCWC, in an amount equivalent to **ten percent (10%)** of the total contract price of the lot(s) awarded.

9. Deadline for submission of quotations to the undersigned in a sealed envelope is ***Tuesday, October 2oth, 2026*** at the Fisheries Committee for the West Central Gulf of Guinea, 4th Floor of Fisheries Scientific Survey Division (FSSD), Community 2, Tema on or before ***10h00 GMT***. All late submissions will be rejected outright.

Yours faithfully,

Kossi Ahoedo
Project Coordinator (MarEcoPlan)

Section II. Conditions of Contract

1. Definitions 1.1 In this contract, the following terms shall be interpreted as indicated:

a. "The Contract" means the agreement entered into between the Contracting Authority and the Supplier, as recorded in the Contract Form Signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein;

b. "The Contract Price" means the price payable to the Supplier under the contract for the full and proper performance of its contractual obligation;

c. "The Goods" means Equipment and related Accessories and spare-parts which the Supplier is required to supply to the Contracting Authority under the contract;

d. "Services" means services ancillary to the supply of the goods such as transportation and insurance including the installation, commissioning and the operational and maintenance training of the supplied equipment.

e. "The Contracting Authority" means the organization purchasing the goods;

f. "The Supplier" means the organization supplying the goods and services under this contract.

2. Technical Specification 2.1 The goods supplied under this contract shall conform to the standards mentioned in the Technical Specification.

3. Patent Right 3.1 The Supplier shall indemnify the Contracting Authority against all third party claims of infringement of patent, trademark or industrial design rights arising from use of goods or any part thereof in the Contracting Authority's country.

4. Inspection and Tests 4.1 The Contracting Authority or its Representative shall have the right to inspect and/or test the goods to confirm their conformity to the Technical Specification and the quality of performance after the supply and delivery of good to Contracting Authority's premises.

5. Packing	5.1	The Supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the contract.
	5.2	The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage.
	5.3	Packing case, size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
	5.4	The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided in accordance with international standard and practice.
6. Delivery of Goods	6.1	Delivery of the goods shall be made by the Supplier in accordance with the terms specified by the Contracting Authority in its schedule of requirements.
	6.2	For purposes of the contract "FOB", "C&F", "CIF", "CIP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of the International Rules for the Interpretation of the Trade Terms (INCOTERMS) published by the International Chamber of Commerce (ICC), Paris.
7. Insurance	7.1	The goods supplied under the contract shall be fully insured in the currency of the bid price against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified.
	7.2	Where delivery of the goods is required by the Contracting Authority on a CIF or CIP basis to a specified destination, the Supplier shall arrange and pay for insurance, naming the Contracting Authority as the Beneficiary and the Supplier shall be required to meet all transport and storage expenses until delivery.
8. Warranty	8.1	The Supplier warrants that all the goods supplied under the contract shall fully comply with the specification laid down in the contract.

8.2 The warranty shall remain valid for one year after the goods have been delivered to the final destination indicated in the contract and accepted by the Contracting Authority after installation and commissioning of equipment by the Supplier.

8.3 The Contracting Authority shall promptly notify the Supplier in writing of any claims arising under this warranty.

8.4 Upon receipt of such notice, the Supplier shall, within 30 days replace the defective goods without cost to the Contracting Authority. The Supplier will be required to remove, at its own risk and cost, the defective goods.

9. Payment

9.1 Payment shall be made in the currency in which the contract price has been stated in the Supplier's tender.

9.2 Payment of the goods supplied from within Ghana shall be made in Ghanaian Cedis after the delivery and installation and commissioning of goods to the satisfaction of the Contracting Authority.

9.3 Payment of the goods to be supplied from abroad shall be made in the following manner:

a. On shipment: Eighty (80) percent of the contract price of the Goods shipped shall be paid through irrevocable confirmed letter of credit opened in favour of the Supplier in a bank in its country, upon submission of documents.

b. On acceptance: Twenty (20) percent of the contract price of goods received shall be paid within thirty (30) days of receipt of the goods upon submission of claim supported by the acceptance certificate issued by the Contracting Authority.

Or

c. Full payment on satisfactory delivery and acceptance of goods.

10. Prices

10.1 Prices charged by the Supplier for goods delivered under the contract shall not vary from the prices quoted by the Supplier in its sealed quotation.

11. Liquidated Damages	11.1	If the Supplier fails to deliver any or all of the goods within the time period specified in the contract, the Contracting Authority shall, without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 1.0 percent of the contract price of delayed goods for each week of delay until actual delivery, up to a maximum deduction of 10 percent of the delayed goods' contract price. Once the maximum is reached, the Contracting Authority may consider termination of the contract.
12. Resolution of Disputes	12.1	The Contracting Authority and Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the contract.
	12.2	If, after thirty (30) days from the commencement of such informal negotiation, the Contracting Authority and Supplier have been unable to resolve amicably a contract dispute, it shall be referred by either party to an adjudicator agreed by the parties. In the event of disagreement, the adjudicator shall be appointed in accordance with the Laws and Rules of Ghana.
13. Governing Language	13.1	The Governing Language shall be English
14. Applicable Law	14.1	The applicable law shall be the Laws of Ghana.
15. Notices	15.1	Contracting Authority's address for notice purposes: ***Fisheries Committee for the West Central Gulf of Guinea*** ***P.O. Box BT 62, Tema.*** **[Attention: Antoine Gaston Djihinto]**
	15.2	Supplier's address for notice purposes: _____ _____
16. Taxes and Duties	16.1	The Supplier shall be entirely responsible for all taxes, duties, licence fees for the initial period of purchase covered by warranty and other such levies imposed by the Government of Ghana.
17. Operation, Maintenance and Spare-parts Manuals	17.1	The successful Supplier shall supply 2 copies of manufacturer's operation, maintenance and spare-part manuals of the goods (Equipment).

Section III. Form of Contract

THIS AGREEMENT made the _____ day of _____ 20_____ between *[name of Contracting Authority]* (hereinafter called "the Contracting Authority") of the one part and *[name of Supplier]* of *[city and country of Supplier]* (hereinafter called "the Supplier") of the other part:

WHEREAS the Contracting Authority invited bids for certain goods and ancillary services, viz.,

_____

_____

[brief description of goods and services]

and has accepted a tender by the Supplier for the supply of those goods and services in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:

a. Tender Form and the Price Schedule submitted by the Supplier;

b. The Schedule of Requirements;

c. The Technical Specifications;

d. The Conditions of Contract; and

e. The Contracting Authority's Notification of Award.

3. In consideration of the payments to be made by the Contracting Authority to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Contracting Authority to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Contracting Authority hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

On behalf of the Contracting Authority	On behalf of the Supplier
Name:	Name:
Designation:	Designation:
Sign:	Sign:
Seal:	Seal:

Section IV. Sample Forms

1. Tender and Price Schedules

Date:

To: *[name and address of Contracting Authority]*

Gentlemen and/or Ladies:

Having examined the tender documents, we the undersigned, offer to supply and deliver

_____

_____

[description of goods and services]

in conformity with the said tender documents for the sum of _____, _____ *[total tender amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Tender.

We undertake, if our Tender is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Tender is accepted, we will obtain the guarantee of a bank in a sum equivalent to _____ percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Contracting Authority.

We agree to abide by this Tender for a Period of _____ *[number]* days from the date fixed for Tender opening it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Tender, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____ 20_____.

_____ _____

[Signature] *[In the capacity of]*

Duly authorized to sign Tender for and on behalf of _____

Price Schedule for Goods Offered from Abroad

Name of Supplier _____ Page _____ of _____

1	2	3	4	5	6	7	8
Item	Description	Country of origin	Quantity	Unit price FOB port or place of loading (specify port or place	Unit price CIF port of entry (specify port) or CIP named place (specify order point or place of destination)	Total CIF or CIP price per item (col. 4 x 6)	Unit price of inland delivery to final destination and unit price of other incidental services

Total CIP (place of destination) Price …… (in words)

Signature of Tenderer _____

Note: In case of discrepancy between unit price and total, the unit price shall prevail.

Price Schedule for Domestic Goods Offered from within Ghana

Name of Supplier _____ Page _____ of _____

1	2	3	4	5	6	7	8	9
Item	Description	Country of origin	Quantity	Unit price EXW per item	Cost of local labour, raw material and component **N/A**	Total price per item (col. 4 x 5)	Unit price per item to final destination and unit price of other incidental services	VAT and other taxes payable if Contract is awarded

Total Price to final destination …… (in words)

Signature of Tenderer _____

Note: In case of discrepancy between unit price and total, the unit price shall prevail.

BID SECURING DECLARATION

Tender Reference No.: _____

Tender Title: _____

Lot No(s).): _____

To:

The Secretary General

Fisheries Committee for the West Central Gulf of Guinea (FCWC)

Tema, Ghana

I/We, the undersigned, being duly authorized to represent:

Name of Bidder: _____

Address: _____

Telephone/Email: _____

having submitted a bid for the above-mentioned procurement, hereby declare that:

1. **I/We understand that, in accordance with the conditions of the tender, bids must be supported by a Bid Securing Declaration.**
2. **I/We accept that we may be subject to the applicable sanctions or restrictions under the FCWC's procurement procedures if we:**

a. withdraw or modify our bid during the period of bid validity specified in the tender document; or

b. having been notified of the acceptance of our bid during the bid validity period:

   - fail or refuse to sign the contract within the period specified in the tender document; or
   - fail or refuse to furnish any required performance security within the stipulated period; or
   - fail to comply with any other mandatory requirement applicable to the successful bidder prior to contract signature.

3. **I/We understand that this Bid Securing Declaration shall apply to the lot(s) identified above for which our bid has been submitted.**
4. **I/We acknowledge that this declaration shall remain valid for the entire period of bid validity specified in the tender document and shall cease to have effect thereafter, unless extended in accordance with the provisions of the tender document.**

5. **I/We understand that this declaration does not constitute a financial guarantee or a payment obligation in itself but represents our undertaking to comply with the bidding conditions and the applicable procurement procedures.**
6. **I/We certify that all information provided in our bid is true, complete and accurate and that the person signing this declaration is duly authorized to bind the bidder.**

Signed this _____ day of _____ 2026.

For and on behalf of the Bidder

Name: _____

Position/Title: _____

Signature: _____

Date: _____

Official Stamp/Seal:

PERFORMANCE SECURITY / PERFORMANCE BOND TEMPLATE

Tender Reference No.:

Tender Title:

Lot No.:

Contract No.:

PERFORMANCE SECURITY

Beneficiary:

Fisheries Committee for the West Central Gulf of Guinea (FCWC)

P.O. Box BT 62, Tema

Date: _____

Performance Security/Bond No.: _____

Guarantor/Surety:

[Insert full name and address of issuing bank, financial institution, insurance/bonding company or surety]

WHEREAS:

(1) The Fisheries Committee for the West Central Gulf of Guinea (hereinafter referred to as the **"Beneficiary"**) has entered into Contract No. _____ dated _____ with **[insert full legal name of Supplier/Contractor]**, having its registered address at **[insert address]** (hereinafter referred to as the **"Supplier"**), for the supply of **[insert description of goods/services]** under Lot(s) _____ (hereinafter referred to as the **"Contract"**).

(2) The Contract provides that the Supplier shall furnish a Performance Security in the amount of **[insert percentage] % of the Contract Price**, equivalent to **[insert amount in figures and currency] ([insert amount in words])**, as security for the due and proper performance of the Supplier's obligations under the Contract.

(3) At the request of the Supplier, we, **[insert name of Guarantor/Surety]**, have agreed to provide this Performance Security/Bond in favour of the Beneficiary.

NOW THEREFORE:

We, **[insert name of Guarantor/Surety]**, hereby irrevocably and unconditionally undertake to pay to the Beneficiary, upon receipt of its first written demand, any sum or sums not exceeding in total:

[INSERT AMOUNT IN FIGURES]

([INSERT AMOUNT IN WORDS])

being the maximum amount of this Performance Security/Bond.

Payment shall be made without the Beneficiary being required to first take legal action against the Supplier, establish the extent of the Supplier's liability, or obtain the consent of the Supplier.
The Beneficiary's written demand shall state that the Supplier is in breach of one or more of its obligations under the Contract and shall identify, in reasonable terms, the nature of such breach.

1. Scope of Security

This Performance Security/Bond shall secure the due and proper performance by the Supplier of its obligations under the Contract, including, but not limited to:

- delivery of the goods within the contractual delivery period;
- compliance with the technical specifications and quality requirements;
- replacement or correction of rejected or defective goods;
- compliance with other material contractual obligations; and
- remedying defects or deficiencies where such obligations are covered by the Performance Security under the Contract.

2. Maximum Liability

Our total liability under this Performance Security/Bond shall not exceed:
[INSERT AMOUNT IN FIGURES AND CURRENCY]
and shall not exceed **10%** of the **Contract Price**.

3. Validity

This Performance Security/Bond shall become effective upon its issuance and shall remain valid until **[insert date]**, being the date specified in the Contract for expiry of the performance security.
Any claim under this Performance Security/Bond must be received by us in writing at the address stated above on or before the expiry date.
Any demand received after the expiry date shall be invalid and shall not give rise to any obligation on our part.

4. Extension of Validity

Where the Supplier's contractual obligations are extended beyond the original completion or delivery date, the Supplier shall, where required under the Contract, obtain an extension of this Performance Security/Bond before its expiry.
The Guarantor/Surety shall not be obliged to extend this Performance Security/Bond unless such extension is formally agreed and issued in accordance with the terms of this instrument.

5. Irrevocability

This Performance Security/Bond is **irrevocable** and shall remain in force notwithstanding any amendment, variation, extension or modification of the Contract, provided that any such amendment,

variation, extension or modification does not increase the maximum liability of the Guarantor/Surety beyond the amount stated herein without the Guarantor/Surety's written consent.

6. Release

This Performance Security/Bond shall be released upon:

a. satisfactory completion of the Supplier's contractual obligations; and

b. receipt by the Guarantor/Surety of written confirmation from FCWC that security is no longer required,

provided that no valid claim remains outstanding under this Performance Security/Bond.

7. Governing Rules

This Performance Security/Bond shall be governed by the laws and applicable regulations of Ghana. Where applicable and expressly stated in the tender/Contract, this Performance Security/Bond shall be subject to the relevant **ICC Uniform Rules for Demand Guarantees (URDG)** or other applicable internationally recognized rules.

8. Notices

All demands, notices and correspondence under this Performance Security/Bond shall be submitted in writing to:

Fisheries Committee for the West Central Gulf of Guinea (FCWC)

P.O. Box CO BT 62

jobs@fcwc-fish.org while copying avitabisa@fcwc-fish.org , kahoedo@yahoo.fr

and to:

Guarantor/Surety:

[Insert name and address]

SIGNATURE

For and on behalf of the **Guarantor/Surety**:

Name: _____

Position: _____

Institution: _____

Signature: _____

Date: _____

Official Stamp/Seal:

Section V. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery (i) at EXW premises, or (ii) to the carrier at the port of shipment when the contract is placed on FOB or CIF terms, or (iii) to the first carrier when the contract is placed on FCA or CIP terms. In order to determine the correct date of delivery hereafter specified, the Contracting Authority has taken into account the additional time that will be needed for international or national transit to the Project Site or to another common place.

Lot No.	DESCRIPTION OF ITEM	QUANTITY	DELIVERY SCHEDULE IN WEEKS
1	SCUBA Gear & Snorkel Kits	1 Set	***Within 6 weeks to the* Fisheries Commission Western Regional Office, Takoradi**
	Underwater Cameras / ROVs	1 Unit	
	Plankton Samplers	1 Unit	
	Multiparameter Water Quality Probes	10 Units	
	Nutrient Test Kits	1 Kit	
	Fish tagging kits	10 units	
2	GPS Units	2 Units	
	Drones with Multispectral Cameras	1 Unit	
3	Desktop Computer	3 Units	
	Laptops	3 Units	
	Tablets for data collection	10 Units	
4	Measuring Board	3 Units	
	Weighing Scale	6 Units	

Section VI. Technical Specification

PROCUREMENT OF MARINE PROTECTED AREA (MPA) SURVEILLANCE EQUIPMENT FOR FCWC UNDER MARECOPLAN

MINIMUM REQUIRED SPECIFICATION	OFFERED SPECIFICATION
SCUBA Gear & Snorkel Kits - Complete kit including BCD - Regulator with alternate air source - Pressure gauge - 12–15 L cylinder - Dive computer - wetsuit (3–5 mm) - mask - snorkel - fins - weight system and carrying bag - Rated for depths up to 40 m and compliant with recognized diving safety standards	
Underwater Cameras / ROVs - Minimum 4K UHD video resolution - 20 MP still images - Depth rating of at least 100 m (camera) or 150–300 m (ROV) - Integrated LED lighting - Image stabilization - GPS-linked metadata where applicable - Battery life of at least 2 hours - ROV should include live video transmission and remote maneuverability	
Plankton Samplers - Standard plankton nets with mesh sizes of 20–500 μm depending on target organisms - Mouth diameter 30–60 cm - Durable nylon mesh - Calibrated flow meter - Cod-end collection bottle - Corrosion-resistant frame suitable for marine use	

Multiparameter Water Quality Probes - Portable instrument capable of measuring temperature, pH, dissolved oxygen, conductivity, salinity, turbidity, ORP, and depth. - Waterproof (IP67 or better) - Rechargeable battery - Internal data logging - GPS capability with accuracy suitable for scientific monitoring	
Nutrient Test Kits - Portable laboratory or field kits capable of measuring the following: nitrate, nitrite, ammonia, phosphate, and silica with colorimetric or digital analysis - Detection limits suitable for marine and freshwater monitoring with standardized reagents and calibration standards.	
Fish tagging kits - T-bar anchor tags - PIT tags - Tagging applicators - Sterilization supplies - Barcode system with waterproof labels - Data sheets or digital recording tools - Replacement needles - All supplies must be suitable for marine and freshwater species	
Handheld GPS Unit - GNSS capability: Multi-constellation receiver supporting at minimum GPS, GLONASS, Galileo and BeiDou - Position accuracy: ≤3 m horizontal accuracy under normal open-sky conditions - Differential capability: Should support SBAS or equivalent augmentation - Waypoint capacity: Minimum of 10,000 waypoints - Tracks: Minimum 200 saved tracks or equivalent; capable of continuous track logging - Routes: Minimum of 200 stored routes - Coordinate systems: Latitude/Longitude and UTM; configurable datum including WGS 84 - Display: Colour sunlight-readable display, minimum of 2.5 inches	

- Mapping: Capable of displaying base maps/topographic or marine mapping where applicable - GIS compatibility: Recorded waypoints, tracks and routes exportable in common GIS-compatible formats such as GPX, CSV and/or equivalent interoperable formats - Connectivity: USB minimum; Bluetooth/Wi-Fi desirable - Internal memory: Minimum 8 GB internal storage plus expandable/removable storage desirable - Environmental protection: Minimum IPX7 waterproof rating - Operating temperature: Suitable for tropical marine field conditions; approximately −10°C to +50°C or better - Battery: Rechargeable battery with minimum 15 hours continuous field operation - Battery should be replaceable - Ruggedness: Shock/vibration resistant and designed for outdoor field use - Accessories: Protective case, wrist strap/lanyard, USB/data cable, charger/power adapter, screen protector and vehicle/field charging option - Warranty: Minimum 12 months, preferably 24 months - Documentation: English-language operating/user manual - Training: Basic operational and data-download training for designated fisheries personnel	
Drones with Multispectral Cameras - UAV type: Professional multirotor UAV suitable for automated mapping and environmental surveys - Positioning: Integrated RTK GNSS positioning - Real-Time Kinematic (RTK) accuracy: Approx. 1–3 cm horizontal and 2–5 cm vertical under suitable RTK conditions - Maximum flight time: ≥40 minutes under manufacturer-specified test conditions - Multispectral sensor: Integrated multispectral imaging system - Required bands: At minimum Blue, Green, Red, Red-	

edge and Near Infrared (NIR) - RGB camera: Minimum 20 MP - Image geotagging: Images must contain geographic coordinates and relevant positioning metadata - Radiometric calibration: Radiometric calibration capability; reflectance/calibration panel or equivalent - Sunlight sensor: Downwelling light/sunshine sensor desirable for consistent multispectral measurements - Mission planning: Automated waypoint, grid and mapping mission capability - Terrain following radar: Must have - Obstacle avoidance: Must have multi-directional obstacle sensing/avoidance - Return-to-home: Automatic return-to-home on low battery, signal loss or user command - Wind resistance: Minimum approximately 10 m/s or better - Operating environment: Suitable for tropical coastal conditions - Image formats: Standard RGB and multispectral image formats compatible with GIS/remote-sensing software - GIS compatibility: Compatible with commonly used GIS and remote-sensing workflows - Photogrammetry: Data compatible with standard photogrammetry/orthomosaic processing software - Outputs: Must support orthomosaics, vegetation/habitat indices, surface models and spatial mapping - Controller: Dedicated remote controller with high-brightness display or compatible field tablet/display - Batteries: Minimum 3 intelligent flight batteries for UAV - Charging: Multi-battery charging hub plus AC charging system - Storage: Adequate high-speed memory cards/media - Transport: Rugged protective carrying/transport case - Spare parts: Minimum of 2 spare propeller sets and other routine replacement accessories - RTK accessories: RTK/base-station or network RTK capability	

- Software: Required flight-planning/mission-management software and necessary licenses supplied - Warranty: Minimum of 24 months - Training: Practical pilot, mission-planning, multispectral-data acquisition, maintenance and data-processing training - After-sales support: Supplier must demonstrate technical support and availability of replacement parts	
Desktop Computer - Processor: Min of Intel Core i7 or AMD Ryzen 7 - Memory: Min of 32 GB RAM - Storage: Min of 1 TB - Storage type: SSD - 4GB dedicated graphics card - Gigabit Ethernet - Operating System: Windows 11 Professional or a later version - Dual-monitor capability - Backup UPS of min capacity of 1kVA	
Laptops - Processor: Intel Core i7 or AMD Ryzen 7 - Memory: Min of 16 GB RAM - Storage: Min of 512 GB - Display: 14–15.6-inch Full HD display - Battery life: Min of 8 hours - rugged or semi-rugged design preferred for field use - Connectivity: Wi-Fi 6, Bluetooth, and HDMI/USB-C	
Tablets for data collection - Display: 10–11-inch display - Memory: Min of 8 GB RAM - Storage: Min of 128 GB - GPS-enabled, Wi-Fi and optional 4G/5G connectivity - IP67-rated rugged casing - Min battery life of 8 hours, stylus support, and compatibility with mobile data collection software.	
Measuring Board - Digital fish measuring board with integrated sensors - Measurement range 0–120 cm (or greater) - Resolution of 1 mm - Automatic electronic recording - Bluetooth/USB connectivity - Waterproof construction - Rechargeable battery, and compatibility with fisheries databases.	

Weighing Scale - Multiple scales covering analytical and field needs: Precision balance (0.01 g readability) Bench scale (0.1 g readability) Hanging/platform scale (1 g readability up to 50 kg) - Stainless steel platform - Rechargeable battery - LCD display, and calibration capability	

Section VII. Schedule of Distribution

Lot No.	Description	Fisheries Commission Western Regional Office, Takoradi	Total
1	SCUBA Gear & Snorkel Kits	1 Set	1 Set
	Underwater Cameras / ROVs	1 Unit	1 Unit
	Plankton Samplers	1 Unit	1 Unit
	Multiparameter Water Quality Probes	10 Units	10 Units
	Nutrient Test Kits	1 Kit	1 Kit
	Fish tagging kits	10 units	10 units
2	GPS Units	2 Units	2 Units
	Drones with Multispectral Cameras	1 Unit	1 Unit
3	Desktop Computer	3 Units	3 Units
	Laptops	3 Units	3 Units
	Tablets for data collection	10 Units	10 Units
4	Measuring Board	3 Units	3 Units
	Weighing Scale	6 Units	6 Units