



RFQ Date: January 6th, 2025

To: Interested Suppliers

Subject: Fisheries monitoring equipment for Port-Sudan, Sudan
PERSGA-2217-GO-RFQ

REQUEST FOR PRICE QUOTATION

Dear Sir/Madam

The Regional Organization for the Conservation of the Red Sea and Gulf of Aden (PERSGA) has received a grant from the International Development Association - **IDA Grant No. P178143** towards the cost of implementation of the **Sustainable Fishery Development in Red Sea and Gulf of Aden (SFISH) Project**, and intends to apply part of the proceeds of this grant to make eligible payments under the contract for which this announcement is being published.

Please provide price quotations for the following items.

Fisheries monitoring equipment to Sudan as detailed in the table "Fisheries monitoring equipment for Sudan

Subject to the Following Requirements:

1. **Delivery Location:** Port-Sudan, Sudan.
2. **Expected Delivery Date:** 75 days from the date of contract signing.
3. **Type of Contract:** Unit Price in USD
4. **Payment Conditions:** 15 days after successful delivery and installation
5. **Currency:** Prices can be quoted in USD or any transferable currency
6. **Warranty Period:** 12 months
7. **Prices:** Shall include all duties, taxes, transport, and installation
8. **Quotation Validity Period:** 60 days from the latest date for submission of the price quotation
9. **Submission Address:** Via email to sourcing@persga.org
10. **Latest Date for Submission of Quotation:** January 31, 2025
11. **Pre-offer Meeting:** N/A
12. **Pre-offer Site Visit:** N/A
13. **Specifications:** included
14. **Alternative Quotations (Specifications):** Allowed
15. **Partial Quotation:** Allowed
16. **Partial Award:** Possible

Fisheries monitoring equipment for Sudan

Nr	Item	Minimum required technical specifications	Qty	Unit	Unit Price USD	Total Cost USD
1	Galaxy Smart tablets	For collecting catch data CPU: Qualcomm SM6115 Display: 10.4-inch, 2000x1200-pixel Storage: 32GB Memory: 3GB Ports: USB-C, microSD Dimensions: 9.7 x 6.2 x 0.3 inches Weight: 1.1 pounds	5	Pices		
2	Vernier Calipers	Precision tools used to measure the thickness or diameter of objects, often used in biological studies. Range: 0 to 150 mm or more. Accuracy: ± 0.02 mm. Material: Stainless steel. Display: Digital readout with metric and imperial units.	2	Set		
3	Telescope and Tripod	Used for long-distance observation, often mounted on a tripod for stability. Magnification: 20x to 60x. Objective Lens Diameter: 60 to 80 mm. Tripod Height: Adjustable from 50 cm to 150 cm. Weight: Total weight around 2 to 5 kg.	1	Set		
4	Handheld GPS	Portable device used to determine precise geographic locations using satellite signals. Accuracy: ± 3 meters under normal conditions. Screen: 2-3 inches color display. Battery Life: 10 to 20 hours. Features: Waypoint marking, route planning, and map display.	4	Piece		
5	Digital Balance	Electronic scale used to measure the weight of samples with high accuracy. Capacity: 100 to 2000 grams. Readability: 0.01 to 0.1 grams. Pan Size: 10 to 15 cm diameter. Calibration: Automatic or manual with external weights.	2	Piece		
6	Fish Measuring Board	A flat board marked with a ruler used to measure the length of fish. Length: 1 meter or longer, marked in cm/mm. Material: Polyethylene or aluminum. Features: Non-slip surface, foldable for portability. Thickness: 2 to 5 mm.	10	Set		

7	Measuring Tapes	Flexible tapes used for measuring distances and dimensions in the field. Length: 30 to 100 meters. Material: Fiberglass or steel tape. Width: 10 to 20 mm. Graduations: Metric (cm/mm) or imperial (inches).	10	Set		
8	Dissection Kits	Sets of tools used for dissecting specimens, including scissors, scalpels, and forceps. Components: Scalpels, scissors, forceps, needles, probes, tweezers. Material: Stainless steel. Case: Roll-up or hard plastic case. Scalpel Blades: Replaceable, various sizes.	10	Set		
9	Maps or Charts	Visual representations of geographic areas, used for navigation and planning fieldwork. Scale: 1:10,000 to 1:100,000 for detailed studies. Material: Waterproof paper or laminated. Features: Topographic details, bathymetry, navigational aids. Size: Foldable or rollable, typically A2 or A3 size.	10	Piece		
10	Ice Boxes	Insulated containers used to keep samples cool during transport. Capacity: 10 to 50 liters. Insulation: High-density polyurethane foam. Material: Hard plastic exterior, with a rubber seal on the lid. Temperature Retention: Keeps contents cool for 12 to 48 hours.	4	Piece		
11	Saltwater-Resistant Spring Balance	A spring scale designed to resist corrosion from saltwater, used for weighing fish and other marine organisms. Capacity: 5 to 50 kg. Accuracy: $\pm 1\%$ of full scale. Material: Stainless steel or corrosion-resistant materials. Scale Type: Dual-scale (metric and imperial).	2	Piece		
13	Plankton Nets	Used to collect plankton samples from water, typically with fine mesh to capture small organisms. Mesh Size: 20 to 200 microns. Material: Nylon or polyester mesh. Frame Diameter: 30 to 60 cm. Length: 1 to 2 meters.	2	Piece		

14	pH Meter	Measures the acidity or alkalinity of water, essential for monitoring water quality. Range: 0 to 14 pH. Accuracy: ± 0.01 pH. Temperature Compensation: Automatic (0-100°C). Display: Digital with backlight. (calibration buffers)	2	Piece		
15	Oxygen Meter	Measures the dissolved oxygen levels in water, crucial for assessing the health of aquatic environments. Range: 0 to 20 mg/L or 0 to 200% saturation. Accuracy: ± 0.1 mg/L. Sensor Type: Galvanic or optical. Temperature Range: -5°C to 50°C.	2	Piece		
16	Salinity Meter	Measures the salt concentration in water, important for understanding water chemistry and habitat suitability. Range: 0 to 50 PSU (Practical Salinity Units). Accuracy: ± 0.1 PSU. Temperature Compensation: Automatic. Display: LCD or OLED. (Calibration solutions)	2	Piece		
17	Secchi Disc	A circular disc used to measure water transparency. Diameter: 20 to 30 cm. Material: Plastic or metal. Weight: 0.5 to 1 kg. Line Length: 20 to 30 meters, marked at intervals	2	Piece		
18	Water Sampling Bottles	For collecting water samples at various depths for chemical and biological analysis. Volume: 1 to 5 liters. Material: Polycarbonate or glass. Design: Niskin or Van Dorn style with end caps. Deployment Depth: Up to 200 meters.	200	Piece		
19	Turbidity Meter	Measures the cloudiness or haziness of water indicating density of suspended particles. Range: 0 to 1000 NTU (Nephelometric Turbidity Units). Accuracy: $\pm 2\%$ of reading or ± 0.1 NTU. Light Source: LED or tungsten filament. Data Logging: Built-in memory for storing readings. (calibration solutions)	2	Piece		

20	Compasses and Clinometers	Tools used to measure direction (compasses) and angles of slope (clinometers) in mapping and navigation. Compass Accuracy: $\pm 1^\circ$. Clinometer Range: $\pm 90^\circ$ (vertical angles). Material: Anodized aluminum or plastic. Display: Analog or digital readout	4	Piece		
21	Quadrats	Square frames for sampling and studying the distribution of organisms in a defined area. Size: 0.5m x 0.5m to 1m x 1m. Material: PVC or metal frame. Grid Size: 10 cm squares. Weight: Light for easy transport, typically 0.5 to 2 kg.	4	Piece		
22	Sediment Corer or Grab	Devices used to collect sediment samples from the seabed or riverbed for analysis. Core Diameter: 5 to 10 cm. Core Length: 30 to 100 cm. Material: Stainless steel or PVC. Deployment Depth: Capable of sampling at depths up to 2000 meters	2	Piece		
23	Sediment Sieves	Used to separate sediment particles by size, typically in ecological and geological studies. Mesh Sizes: 63 microns to 2 mm. Material: Stainless steel or brass. Diameter: 20 to 30 cm. *Stackable for multi-sieve operation.	1	Piece		
24	Drying Oven	Used to dry samples at controlled temperatures, often for preparing specimens for analysis. Temperature Range: Ambient to 250°C. Volume: 20 to 100 liters. Accuracy: $\pm 2^\circ\text{C}$. Construction: Double-walled with insulation, stainless steel interior.	1	Piece		
25	Plankton and Beach Seine Nets	Nets used for collecting plankton and small organisms from the water surface or along the shoreline. Mesh Size: 500 microns to 2 mm. Length: 10 to 30 meters. Material: Nylon or polyester netting. Frame/Handle Material: Aluminum or fiberglass	6	Piece		
26	Transect Tape Measures	Long measuring tapes used to lay out straight lines (transects) for sampling and surveying in the field. Length: 50 to 100 meters. Material: Fiberglass or steel tape. Graduations: Metric (cm/mm) or imperial (inches).	10	Set		

		Case: High-impact plastic with rewind handle.				
27	Scuba diving Equipment	<p>Full set of gear used for underwater diving, including tanks, regulators, and wetsuits. Components: Regulator, buoyancy control device (BCD), dive computer, wetsuit, fins, mask, snorkel.</p> <p>Cylinder Capacity: 10 to 15 liters (compressed air or nitrox).</p> <p>Depth Rating: Up to 40 meters.</p> <p>Materials: Corrosion-resistant alloys, high-density neoprene for wetsuits. (you might also need lead weights and belt)</p>	4	Set		
28	Container lab	<p>For physicochemical analysis apparatus and work 20 feet</p> <p>Material: Durable and chemical-resistant materials, such as stainless steel or high-grade plastic.</p> <p>Design: single or multiple compartments, airtight seals, and temperature control options.</p> <p>Safety: Features secure closures, shock absorption, and clear labeling to prevent contamination and damage.</p>	1	Piece		
29	Laptop	<p>Processor: Intel Core i5 or AMD Ryzen 5</p> <p>RAM: 16GB</p> <p>Storage: 1 Tera GB SSD</p> <p>Screen Size: 14 inches, Full HD (1920x1080)</p> <p>Battery Life: Up to 8 hours</p> <p>Connectivity: Wi-Fi, Bluetooth, USB 3.0, HDMI</p>	2	Piece		
30	Desktop	<p>Processor: Intel Core i5 or AMD Ryzen 5</p> <p>RAM: 8GB</p> <p>Storage: 512GB SSD + 1TB HDD</p> <p>Graphics: Integrated or basic dedicated GPU (e.g., NVIDIA GTX 1650)</p> <p>Monitor: 24 inches, Full HD (1920x1080)</p> <p>Connectivity: USB 3.0, Ethernet, HDMI</p>	5	Piece		
31	Printer	<p>Type: Laser printer</p> <p>Print Speed: 20 pages per minute (ppm) for black & white</p> <p>Resolution: 1200 x 1200 dpi</p> <p>Paper Capacity: 250 sheets</p> <p>Connectivity: USB, Wi-Fi, Ethernet</p> <p>Functions: Print, scan, copy</p>	2	Piece		

32	Internet Modem	Type: DSL/Cable modem Speed: Up to 100 Mbps Connectivity: Ethernet ports, Wi-Fi (dual-band) Security: WPA3, Firewall, VPN support	2	Piece		
33	Deep Freezer 14 ft	14 ft	1	Piece		
34	Temperature Logger (Water Temperature Pro v2 Data Logger)	Water Temperature Pro v2 Data Logger: Operation range†: -40° to 70°C (-40° to 158°F) in air; maximum sustained temperature of 50°C (122°F) in water Accuracy: ±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F) Resolution: 0.02°C at 25°C (0.04°F at 77°F) Response time: (90%) 5 minutes in water; 12 minutes in air moving 2 m/sec (typical) Stability (drift): 0.1°C (0.18°F) per year Real-time clock: ± 1 minute per month 0° to 50°C (32° to 122°F) Battery: 2/3 AA, 3.6 Volt Lithium, factory-replaceable ONLY Battery life (typical use): 6 years with 1 minute or greater logging interval Memory (non-volatile): 64K bytes memory (approx. 42,000 12-bit temperature measurements) Weight: 42 g (1.5 oz) Waterproof: To 120 m (400 ft.) Logging interval: Fixed-rate or multiple logging intervals, with up to 8 user-defined logging intervals and durations; logging intervals from 1 second to 18 hours. Launch modes: Immediate start and delayed start Offload modes: Offload while logging; stop and offload Environmental Rating: IP68	20	Piece		
35	Communication kite (Optic USB Base Station)	Optic USB Base Station: A splash-resistant base station and couplers used to offload data from any HOBO data logger with an Optic USB interface Operating temperatures range: 0 to 50°C (32 to 122°F) Cable length: 183 cm (6 ft.) Offload rate: Offloads full 64K logger in 30 seconds	2	piece		
36	Temperature loggers Required Software	Support for all data loggers Quickly generate presentation-quality graphs Copy & paste series	1	Software		

		<p>Merge data files Save modified graphs as projects Easy data export to XLS, CSV & TXT files Linear & pulse scaling data assistants Multi-Language Support Data Assistants for Dissolved Oxygen, Conductivity, Water Level, Growing Degree Days, Grains per Pound & kWh Ability to create Pie Charts Crop a series to a specific time frame</p> <p>Subset Statistics Tool for details within a time frame Data Shuttle support</p>				
37	Container laboratory for lodging seawater analysis apparatus and work	<ul style="list-style-type: none"> • 20 feet • Material: Durable and chemical-resistant materials, such as stainless steel or high-grade plastic. • Design: single or multiple compartments, workable side bench for apparatus airtight seals, light, connection sockets, ventilation and temperature control/ cooler, fume cupboard with sink and mixer tap 	1	set		
38	Air compressor	<p>3 Filling Ports Max Pressure: 300 bar (4,350 psi) at least Flow Rate: up to 400 L/min</p>	1	Set		
39	Lifting bag	Up to 100KG	1	Set		

Sincerely,

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