



RFP 23-5610

REQUEST FOR PROPOSAL (RFP)

FOR GOODS

Project Title:	Enhancing Climate Information and Knowledge Services
Nature of the goods	Marine water quality monitoring equipment
Location:	Fiji, Niue, Tuvalu and Cook Islands
Date of issue:	14/11/2023
Closing Date:	29/12/2023
SPC Reference:	RFP23-5610

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Part 1: INTRODUCTION

1.1 About the Pacific Community (SPC)

The Pacific Community (SPC) is the principal scientific and technical organisation of the Pacific region, established by treaty in 1947 with the signing of the Agreement Establishing the South Pacific Commission (the Canberra Agreement).

SPC has our headquarters in Noumea, New Caledonia and has regional offices in Fiji, the Federated States of Micronesia and Vanuatu, as well as an office in France. SPC works across the Pacific and has staff in nearly all of our Pacific Island Country and Territory members.

SPC works for the well-being of Pacific people through the effective and innovative application of science and knowledge and is guided by a deep understanding of Pacific Island contexts and cultures. Our unique organisation covers more than 20 sectors and is renowned for knowledge and innovation in such areas as fisheries science, public health surveillance, geoscience and conservation of plant genetic resources for food security.

For more information about SPC and the work that we do, please visit our website: <https://www.spc.int/>.

1.2 SPC's procurement activities

SPC's procurement activities are guided by the principles of high ethical standards, value for money, open competition and social and environmental responsibility and are carried out under our Procurement Policy.

SPC's *Procurement Policy* provides the framework for ensuring that SPC obtains the best value for its purchases, in terms of both cost and quality; demonstrates financial probity and accountability to its members and development partners; manages and prevents the potential for conflicts of interest; reduces its environmental impact and manages any other risks.

At SPC, all procurement follows the same main steps: planning; statement of needs; requisition; solicitation; evaluation; award; receipt; and payment. Different procedures apply depending on the value of the goods, services and works to be procured.

For further information or enquiries about SPC's procurement activities, please visit the procurement pages on our website: <https://www.spc.int/procurement> or email: procurement@spc.int.

1.3 SPC's Request for Proposal (RFP) Process

At SPC, procurement valued at more than EUR 45,000 must be advertised through a Request for Proposal (RFP) with any bids received evaluated by SPC's Procurement Committee to determine the offer that provides the best value for money.

This RFP sets out SPC's requirements and it asks you, as a bidder, to respond in writing in a prescribed format with pricing and other required information. The RFP contains detailed instructions and templates to enable you to submit a compliant bid. It sets out the overall timetable; it confirms the evaluation criteria that SPC will use to evaluate proposals; it explains the administrative arrangements for the receipt of the bids; and it sets out how bidders can request further information.

Your participation confirms your acceptance of SPC's conditions of participation in the RFP process.

Part 2: INSTRUCTIONS TO BIDDERS

2.1 Background

SPC invites you to submit a bid to deliver the goods as specified in [Part 3](#).

SPC has advertised this RFP on its website and may send it directly to potential vendors. The same specifications, submission and other solicitation requirements will be provided to all vendors.

SPC has compiled these instructions to guide prospective bidders and to ensure that all bidders are given equal and fair consideration.

Please read the instructions carefully before submitting your bid. For your bid to be considered, you must provide all the prescribed information by the closing date and in the format specified.

2.2 Submission instructions

Your submission must be clear, concise and complete and should only include information that is necessary to respond effectively to this RFP. Please note that you may be marked down or excluded from the procurement exercise if your submission contains any ambiguities or lacks clarity.

Your proposal must include the following documents (annexes of [Part 5](#) of the RFP):

- a) Bidder's Letter of Application (Annex 1);
- b) Conflict of Interest Declaration (Annex 2);
- c) Information about the bidder and Due diligence (Annex 3);
- d) Technical proposal submission form (Annex4);
- e) Financial proposal submission form (Annex 5).

Your proposal must be submitted in **two separate emails**.

You must submit your **Technical proposal** (Annexes 1 to 4 and all their supporting documents) in English as an attachment to one email. No financial information may appear in the technical proposal.

You must submit your **Financial proposal** (Annex 5) in a separate email. All prices in the proposal must be presented in USD. Your Financial proposal is to be password protected. SPC will request the password in the event that it is required.

Both emails are to be sent to procurement@spc.int with the subject line of your email as: **Submission for RFP23-5610**.

Your proposal must be received no later than **29/12/2023 by 11.45 pm Fiji Time**.

SPC will send a formal acknowledgement to each proposal received before the deadline.

SPC reserves the right to exclude from consideration any proposal not received by the deadline, with incomplete information or in incorrect form.

2.3 Clarifications

You may submit questions or seek clarifications on any issue relating to this RFP. The questions are to be submitted in writing to procurement@spc.int with the subject line: **Clarification RFP23-5610**. The deadline for submission of clarifications is **10/12/2023 by 11.45pm Fiji Time**.

Details will be kept of any communications between SPC and bidders. This assists SPC to ensure transparency of the procurement process. While SPC prefers written communication in the RFP process, at any point where

there is phone call or other conversation, SPC will keep a record or a file note of the exchange with prospective bidders.

2.4 Evaluation

Validity

Each proposal will be assessed for compliance with the submission requirements by the Bids Opening Committee. At this stage, basic due diligence will also be undertaken.

To assist in the examination, evaluation and comparison of proposals, SPC may ask the bidder for clarification of its proposal or additional information. The request for clarification will be in writing.

Technical

All valid proposals will be assessed against the technical evaluation criteria set out in Part 4. The criteria are provided with weighted scores according to the relative importance of each. SPC will not change the evaluation criteria set out in the RFP at any stage of the procurement process. Any changes in the evaluation criteria will result in the RFP process being re-issued.

Bidders are expected to familiarise themselves with local conditions and take these into account in preparing their proposal. Where minimum qualifications are set as specific evaluation criteria (which may include educational qualification, professional accreditation or certification, licensing, experience and expertise), proposals submitted must necessarily meet these criteria.

Pre-Bid Meeting

A Pre-bid Meeting will be arranged by SPC Procurement Team. The pre-bid meeting will be undertaken virtually. Bidders who are interested to attend the pre-bid meeting must register their attendance through the SPC procurement email (procurement@spc.int) by **4pm, Fiji Time on 26th November 2023**.

Financial

Any bids that pass the minimum technical evaluation requirements will pass onto financial evaluation.

During the financial evaluation, if there is a discrepancy between the unit price and the total price, the lower price shall prevail. If there is a discrepancy between words and figures the amount in words will prevail.

The total cost of the proposal must be submitted inclusive of taxes in accordance with the applicable legislation, and is not subject to revision.

2.5 Contract award

SPC may award the contract once the Procurement Committee has determined that a bidder has met the prescribed requirements and the bidder's proposal has been determined to be the most responsive to the RFP documents, provide the best value for money and best serve the interests of SPC.

SPC's [General Terms and Conditions of Contract](#) will apply to any contracts awarded under this RFP, unless otherwise agreed. Any requested changes to the General Terms and Conditions of Contract must be foreshadowed in the submission.

The award of the contract will be made by contract signed and dated by both parties.

2.6 Key dates

Please see the proposed procurement timetable in the table below. This timetable is intended as a guide only and while SPC does not intend to depart from the timetable, it reserves the right to do so at any stage.

STAGE	DATE
RFP advertised	14/11/2023
Pre-bid meeting	To be advised
Deadline for seeking clarification	10/12/2023
RFP Closing Date	29/12/2023
Award of Contract	31/01/2024
Commencement of Contract	5/02/2024
Conclusion of Contract	21/07/2024

2.7 Legal and compliance

Child and vulnerable adult protection: SPC is committed to the well-being of children and vulnerable adults. All SPC contractors are required to commit to the principles of SPC's Child and Vulnerable Adult Protection Policy ([XI.G Manual of Staff Policies](#)). Breach of this requirement can result in SPC terminating any contract with a successful bidder. Any allegations of potential misconduct in relation to this RFP involving children or vulnerable adults should be sent to complaints@spc.int.

Confidentiality: Unless otherwise agreed by SPC in advance or where the contents of the RFP are already in the public domain when **shared** with the bidder, bidders shall at all times treat the contents of the RFP and any related documents as confidential. SPC will also treat the information it receives from the bidders as confidential.

Conflict of interest: Bidders must take all necessary measures to prevent any situation of conflict of interest. You must notify SPC in writing as soon as possible of any situation that could constitute a conflict of interest during the RFP process. If you have any familial connection with SPC staff, this must be declared, and approval will then be sought for you to engage in the RFP process. Breach of this requirement can result in the exclusion of the bidder from the RFP process or in SPC terminating any contract with a successful bidder.

Cost of preparation of proposals: Under no circumstances will SPC be liable for any proposal submission costs, expenditure, work or effort that you may incur in relation to your provision of a proposal (including if the procurement process is terminated or amended by SPC).

Currency, validity, duties, taxes: Unless specifically otherwise requested, all proposals should be in USD and must be net of any direct or indirect taxes and duties and shall remain valid for 120 days from the closing date. The successful bidder is bound by their proposal for a further 60 days following notification they are the preferred bidder so that the contract may be awarded. No price variation due to escalation, inflation, fluctuation in exchange rates, or any other market factors shall be accepted at any time during this period.

Eligibility: Bidders are required to disclose to SPC whether they are subject to any sanction or temporary suspension imposed by any international organisation, or whether they are subject to bankruptcy proceedings. You may not be bankrupt or suspended, debarred, or otherwise identified as ineligible by any international organisation. Failure to disclose such information may result in debarment and termination of any contract issued to the bidder by SPC.

Fraud and corruption: SPC has zero tolerance for fraud and corruption. All contractors have an obligation to report potential fraud and corruption. Breach of this requirement can result in the exclusion of the bidder from the RFP process or in SPC terminating any contract with a successful bidder. Allegations of potential misconduct by an SPC staff member or contractor involving fraud or corruption can be sent to complaints@spc.int.

Good faith: The information in this RFP is provided by SPC in good faith. No representation, warranty,

assurance or undertaking (express or implied) is or will be made, and no responsibility or liability will be accepted by SPC in relation to the adequacy, accuracy, completeness or reasonableness of this RFP or any information provided by SPC in relation to this RFP.

Modifications: Any clarifications, corrections or modifications will be published on the SPC website prior to deadline. In the event a bidder has submitted a bid before the clarification, correction or modification, the bidder will be informed and may modify the bid. The modified bid will still need to be received before the deadline.

No offer of contract or invitation to contract: This RFP is not an offer to contract or an invitation by SPC to enter into a contract with you.

Privacy: The bidder is to comply with the requirements of applicable legislation and regulatory requirements in force for the use of personal data that is disclosed for the purposes of this RFP. SPC will handle any personal information it receives under the RFP in line with its [Privacy Policy](#), and the [Guidelines for handling personal information of bidders and grantees](#).

Right to amend, seek clarity, withdraw, not award: SPC reserves the right to: (1) amend, add to or withdraw all or any part of this RFP at any time, or to re-invite bids on the same or any alternative basis; (2) seek clarification or documents in respect of any bidder's submission; (3) choose not to award a contract as a result of this RFP; (4) make whatever changes it sees fit to the timetable, structure or content of the procurement process, depending on approvals processes or for any other reason. Please note that while SPC will not change the evaluation criteria set out in the RFP without the RFP process being re-issued, SPC does reserve the right at the time of award of contract to vary the quantity of services and goods specified in the RFP and to accept or reject any proposal at any time prior to award of the contract without incurring any liability to the affected bidder or any obligation to inform the affected bidder/s of the grounds for SPC's action.

Right to disqualify: SPC reserves the right to disqualify: (1) any bidder that does not submit a proposal in accordance with the instructions in this RFP; (2) any bidder that misrepresents information to SPC; (3) any bidder that directly or indirectly canvasses any SPC employee concerning the award of a contract.

Use of material: Bidders shall not use the contents of the RFP or any related material for any purpose other than for the purpose of considering submitting, or submitting, a bid to SPC.

Warranty, representation, assurance, undertaking: The bidder acknowledges and agrees that no person has any authority to give any warranty, representation, assurance or undertaking on behalf of SPC in connection with any contract which may (or may not) follow on from this RFP process.

2.8 Complaints process

Bidders that consider they were not treated fairly during any SPC procurement process may lodge a protest. The protest should be addressed to complaints@spc.int. The bidder must provide the following information: (1) full contact details; (2) details of the relevant procurement; (3) reasons for the protest, including how the alleged behaviour negatively impacted the bidder; (4) copies of any documents supporting grounds for protest; (5) the relief that is sought.

Part 3: Specification of Goods

A. Background/context

Rising sea levels, marine heatwaves, extreme events, and changing rainfall patterns combined with increased urbanisation of the coastal zone are exacerbating coastal risk. As a result, the ecosystems on which Pacific Island populations rely for their livelihoods are increasingly threatened and at risk of destruction.

The high vulnerability to climate change impacts and climate-related hazards of the five programme countries arises from their geography, the exposure of their populations and their lack of resilience to shocks. The limited adaptation capacity is worsened by financial and human resource constraints and is compounded by an economic reliance on particularly climate sensitive sectors such as subsistence farming, fisheries and tourism. The programme countries therefore require reliable, timely and actionable information and early warning on their local weather, climate and ocean environments, as well as science-based advice on adaptation planning and early action for longer term climate change impacts.

The *Enhancing Climate Information and Knowledge Services* (EIKS) project will facilitate the development of integrated climate and ocean information services and people-centred MHEWS in Cook Islands, Niue, Palau, RMI and Tuvalu. This will be achieved through four inter-related components:

1. **Strengthened delivery model for climate information services and MHEWS covering oceans and islands.** This will put in place the institutional frameworks, market analyses, financial policies and mainstreaming of climate risk knowledge to underpin a sustainable business delivery model for climate services.
2. **Strengthened observations, monitoring, modelling and prediction of climate and its impacts on ocean areas and islands.** This will transform the five National Meteorological Services from WMO Basic (Category 1) to Essential (Category 2) level; meet the surface-based standards of the Global Basic Observing Network (GBON); establish end-to-end Ocean Information Services; establish Quality Management Systems (QMSs); and support Impact-based Forecasting – with a focus on building in-country capacity for long-term sustainability.
3. **Improved community preparedness, response capabilities and resilience to climate risks.** This will help establish last-mile delivery of early warning and early action in island communities through providing access to enhanced warning communication, dissemination, and building preparedness and response capacities. It will also introduce Forecast-based Financing to facilitate the shift from traditional reactive responses to proactive pre-event early action.
4. **Enhanced regional knowledge management and cooperation for climate services and MHEWS.** This will optimise synergies among the Programme countries; establish an interactive ICT platform and harmonised data management; institute joint learning and training through WMO and other training centres; and foster networking and mentoring in support of Programme implementation.

Under component 2, the Pacific Community (SPC) is working with three Pacific Islands Countries, namely **Tuvalu, Niue and Cook Islands** towards strengthening their ocean and lagoon related water quality

monitoring capacity. As part of this activity, SPC is seeking to procure robust and sustainable ocean water quality monitoring solutions.

B. Specification of Items

To deliver this objective SPC is looking to procure the items listed below. The bidder can choose to bid for any of the 4 Lots described below, however standardisation is preferred. Note that final quantities could change depending on the costings provided.

LOT	Item Description	Quantity required	Total
1	Integrated water quality sensors	18 x [multi-probe solution] + 6 x [sets of spare sensors].	18
2	Fully integrated real-time water quality monitoring solution mountable on coastal structure (e.g. jetty).	2x [2 x multi-probe solution (1 unit being for backup) + 1 [sets of spare sensors] + mounting accessories + power source + data logging and telemetry, and 1 year of data transfer fees]	2
3	Environmental buoy including 1 integrated water quality sensor providing real-time data.	2x [environmental buoy + 2 x multi-probe solution (1 unit being for backup) + 1 set of spare sensors + mooring (top section) + 1 year data transfer fee].	2
4	Environmental buoy including 3 integrated water quality sensors (surface, middle, bottom) providing real-time data.	2 x [environmental buoy + smart mooring + 6 x multi-probe solution (3 unit being for backup) + 1 set of spare sensors + 1 year data transfer fee]	2

C. Functional Specification

Under the ECIKS project, SPC is working in partnership with relevant national stakeholders in Cook Islands, Niue and Tuvalu towards strengthening ocean monitoring services with the acquisition of water quality monitoring solutions. These solutions will enable stakeholders to monitor the health of lagoons and surrounding ocean space, deepen our understanding of drivers impacting lagoon water, in turn support strengthened ocean prediction and warning services as well as coastal risk management initiatives.

First level maintenance and calibration should be aligned with in-country capacity, while the overall solution should contribute towards the development of a sustainable national ocean monitoring service.

D. Design Specification

The water quality monitoring systems must be light-weight to ensure reduced mobilisation and deployment cost and designed to sustain medium- to long-term deployment at sea.

With limited national capacity to operate and maintain ocean observation system, the solution should ideally be an off-the-shelf system requiring minimal calibration and maintenance effort to contribute

towards the sustainability of the system, and the continuity of related ocean monitoring services.

Floating devices included in Lot 3&4 must satisfy requirements for maritime buoyage system under the International Association of Marine Aids and Lighthouse Authorities (IALA).

Deployment sites will be determined in collaboration with national stakeholders. For lot3, the mooring sought through this procurement only focuses on the top part of the whole mooring system which will be latter complemented with anchorage, mooring line, etc.. once the sites are finalized. The top section of the mooring should be optimized to ensure high quality data is collected by the device.

E. Technical specification

E.1 Minimum specifications for Lot1:

Functional Area	Parameter	Minimum Requirement
Sensor	Temperature	<ul style="list-style-type: none"> Range: 10°C to 45°C Resolution: 0.1°C Accuracy: +/-0.1°C RDG
	Conductivity/salinity	<ul style="list-style-type: none"> Range: 0 to 100 mS/cm Resolution: 0.01 mS/cm Accuracy: +/- 2%RDG
	Turbidity	<ul style="list-style-type: none"> Range: 0-500 NTU (or FNU) Resolution: 0.1 NTU (or FNU) Accuracy: <5%RDG
	pH	<ul style="list-style-type: none"> Range: 0-14 pH units Resolution: 0.01 pH unit Accuracy: 0.2 pH units
	Dissolved oxygen	<ul style="list-style-type: none"> Range: 0-25 mg/L Resolution: 0.01 mg/L Accuracy: <5% RDG
	Chl-a	<ul style="list-style-type: none"> Range: 0-400 µg/L Resolution: 0.1 µg/L Accuracy: R2>0.95
	Depth	<ul style="list-style-type: none"> Range: 0-25m Resolution: 0.01m Accuracy: +/- 2% RDG
	Set of spare sensors	<ul style="list-style-type: none"> Chl-a pH DO Turbidity
Calibration and Maintenance	Calibration	<ul style="list-style-type: none"> Calibration guide Demonstrated easy calibration. Supply of 4 years of calibration solutions Frequency: Should not be less than every 4 weeks
	Maintenance	<ul style="list-style-type: none"> Maintenance guide Demonstrated easy maintenance. Supply of accessories for maintenance operation (when relevant)

Functional Area	Parameter	Minimum Requirement
		<ul style="list-style-type: none"> Frequency: Not less than every 4 weeks (depending on site specific biofouling)
	Wiper	<ul style="list-style-type: none"> Must include wiper to help clean sensors during operation
	Sustainability	<ul style="list-style-type: none"> Demonstrate the advantage of the solution proposed towards strengthening the sustainability of the monitoring programme.
Data Recording	Processing	<ul style="list-style-type: none"> Onboard processing Integration time from 1 – 60 minutes
	Storage	Logging unit must have sufficient memory to support measurement of all parameters and derivatives at the maximum recording interval for a minimum of a 3-month deployment.
	Output File	<p>Internal output file is to be text based and contain, as a minimum, the following metadata:</p> <ul style="list-style-type: none"> User details Software version (both sensor and interface software) Log file details, including: <ul style="list-style-type: none"> Site Name Log file time zone Log file start/stop details Logging mode details Log notes (e.g. date/time of download, battery/memory remaining) Sensor details Model & Serial Number
Power Source	Battery	<ul style="list-style-type: none"> On-board battery must be rechargeable. must have sufficient battery to support measurement of all parameters and derivatives at the maximum recording interval for a minimum of a 3-month deployment.
Environmental	Materials	<ul style="list-style-type: none"> Marine grade plastics Material adequate to operate in tropical waters.
Validation	Field validation	<ul style="list-style-type: none"> System must have undergone comparison test with other commercial system during co-located field test Test data, results and report must be available
	Lab validation	<ul style="list-style-type: none"> Must have undergone motion testing in controlled conditions. Test data, results and report must be available. Factory certificate must be supplied
Interface	Software	<ul style="list-style-type: none"> User software is to have following capabilities: <ul style="list-style-type: none"> MS Windows 10 compliant Intuitive GUI (dashboard)

Functional Area	Parameter	Minimum Requirement
	Communication	Either: <ul style="list-style-type: none"> Interface/download cable Robust connectors, compatible with computer USB interface (or complete with adaptors if non-standard) Or: Wireless connection capability
	Signal	<ul style="list-style-type: none"> Clear signal showing system is on (recording) or off.
	Handheld (optional)	<ul style="list-style-type: none"> Controller with relevant accessories to enable instantaneous water quality reading (additional cost for 3 devices under lot1 to be provided separately)
Warranty	Warranty Period	Minimum 3-year warranty
Training		<ul style="list-style-type: none"> In-country training in Niue, Tuvalu and Cook Islands with a focus on equipment maintenance and calibration. Training manual Training report delivered after completion of the training

E.2 Minimum specifications for Lot2

Functional Area	Parameter	Minimum Requirement
Sensor (Same as lot1)	Temperature	<ul style="list-style-type: none"> Range: 10°C to 45°C Resolution: 0.1°C Accuracy: +/-0.1°C RDG
	Conductivity/salinity	<ul style="list-style-type: none"> Range: 0 to 100 mS/cm Resolution: 0.01 mS/cm Accuracy: +/- 2% RDG
	Turbidity	<ul style="list-style-type: none"> Range: 0-500 NTU (or FNU) Resolution: 0.1 NTU (or FNU) Accuracy: <5% RDG
	pH	<ul style="list-style-type: none"> Range: 0-14 pH units Resolution: 0.01 pH unit Accuracy: 0.2 pH units
	Dissolved oxygen	<ul style="list-style-type: none"> Range: 0-25 mg/L Resolution: 0.01 mg/L Accuracy: <5% RDG
	Chl-a	<ul style="list-style-type: none"> Range: 0-400 µg/L Resolution: 0.1 µg/L Accuracy: R2>0.95
	Depth	<ul style="list-style-type: none"> Range: 0-25m Resolution: 0.01m Accuracy: +/- 2% RDG
	Set of spare sensors	<ul style="list-style-type: none"> Chl-a

Functional Area	Parameter	Minimum Requirement
		<ul style="list-style-type: none"> • pH • DO • Turbidity
Calibration and Maintenance (Same as Lot1)	Calibration	<ul style="list-style-type: none"> • Calibration guide • Demonstrated easy calibration. • Supply of 4 years of calibration solutions • Frequency: not less than every 4 weeks
	Maintenance	<ul style="list-style-type: none"> • Maintenance guide • Demonstrated easy maintenance. • Supply of accessories for maintenance operation (when relevant) • Frequency: not less than 4 weeks minimum. (depending on site specific biofouling)
	Wiper	<ul style="list-style-type: none"> • Must include wiper to help clean sensors during operation
	Sustainability	<ul style="list-style-type: none"> • Demonstrate the advantage of the solution proposed towards strengthening the sustainability of the monitoring programme.
Data Recording	Processing	<ul style="list-style-type: none"> • Onboard processing Integration time from 1 – 60 minutes
	Storage	logging unit must have sufficient memory to support measurement of all parameters and derivatives at the maximum recording interval for a minimum of a 3-month deployment.
	Output File	Internal output file is to be text based and contain, as a minimum, the following metadata: <ul style="list-style-type: none"> • User details • Software version (both sensor and interface software) • Log file details, including: <ul style="list-style-type: none"> • Site Name • Log file time zone • Log file start/stop details • Logging mode details • Log notes (e.g. date/time of download, battery/memory remaining) • Sensor details • Model & Serial Number
Power Source	Battery	<ul style="list-style-type: none"> • On-board battery must be rechargeable. • must have sufficient battery to support minimum of 3 months deployment.
	Solar	<ul style="list-style-type: none"> • Battery recharged by integrated solar panels • Sufficient to support autonomous operation (including data recording and data transmission)

Functional Area	Parameter	Minimum Requirement
Environmental	Materials	<ul style="list-style-type: none"> • Marine grade plastics • Material adequate to operate in tropical waters.
	Mount	<ul style="list-style-type: none"> • System must include all parts to be mounted on a coastal structure (e.g. Jetty) • A manual providing clear instruction for mounting the equipment must be supplied. • Online support to ensure successful installation must be provided.
Validation	Field validation	<ul style="list-style-type: none"> • System must have undergone comparison test with other commercial system during co-located field test • Test data, results and report must be available
	Lab validation	<ul style="list-style-type: none"> • Must have undergone motion testing in controlled conditions. • Test data, results and report must be available. • Factory certificate must be supplied
Interface	Software	<ul style="list-style-type: none"> • User software is to have following capabilities: <ul style="list-style-type: none"> ○ MS Windows 10 compliant ○ Intuitive GUI (dashboard)
	Communication	<p>Either:</p> <ul style="list-style-type: none"> • Interface/download cable • Robust connectors, compatible with computer USB interface (or complete with adaptors if non-standard) <p>Or</p> <p>Wireless communication capability</p> <p>Near Real Time communication:</p> <ul style="list-style-type: none"> • Communication via satellite or mobile network (i.e. 4G). System with both capabilities will be advantageous. • Support two-way communication • Capable to transmit real-time sensor data.
	Signal	<ul style="list-style-type: none"> • Clear signal showing system is on (recording) or off.
Warranty	Warranty Period	Minimum 3-year warranty
Training		<ul style="list-style-type: none"> • In-country training in Niue, and Cook Islands with a focus on equipment maintenance and calibration. • Training manual • Training report delivered after completion of the training

E.3. Minimum specifications for Lot3 and Lot4:

Functional Area	Parameter	Minimum Requirement
Sensor	Temperature	<ul style="list-style-type: none"> Range: 10°C to 45°C Resolution: 0.1°C Accuracy: +/- 0.1°C RDG
	Conductivity/salinity	<ul style="list-style-type: none"> Range: 0 to 100 mS/cm Resolution: 0.01 mS/cm Accuracy: +/- 2% RDG
	Turbidity	<ul style="list-style-type: none"> Range: 0-500 NTU (or FNU) Resolution: 0.1 NTU (or FNU) Accuracy: <5% RDG
	pH	<ul style="list-style-type: none"> Range: 0-14 pH units Resolution: 0.01 pH unit Accuracy: 0.2 pH units
	Dissolved oxygen	<ul style="list-style-type: none"> Range: 0-25 mg/L Resolution: 0.01 mg/L Accuracy: <5% RDG
	Chl-a	<ul style="list-style-type: none"> Range: 0-400 µg/L Resolution: 0.1 µg/L Accuracy: R2>0.95
	Depth	<ul style="list-style-type: none"> Range: 0-50m Resolution: 0.01m Accuracy: +/- 2% RDG
	Position	<ul style="list-style-type: none"> GNSS
	Set of spare sensors	<ul style="list-style-type: none"> Chl-a pH DO Turbidity
Calibration and Maintenance (same as Lot1)	Calibration	<ul style="list-style-type: none"> Calibration guide Demonstrated easy calibration. Supply of 4 years of calibration solutions Frequency: not less than every 4 weeks
	Maintenance	<ul style="list-style-type: none"> Maintenance guide Demonstrated easy maintenance. Supply of accessories for maintenance operation (when relevant) Frequency: Not less than every 4 weeks (depending on site specific biofouling)
	Wiper	<ul style="list-style-type: none"> Must include wiper to help clean sensors
	Sustainability	<ul style="list-style-type: none"> Demonstrate the advantage of the solution proposed towards strengthening the sustainability of the monitoring programme.
Data Recording (Same as Lot1)	Processing	<ul style="list-style-type: none"> Onboard processing Integration time from 1 – 60 minutes

Functional Area	Parameter	Minimum Requirement
	Storage	logging unit must have sufficient memory to support measurement of all parameters and derivatives at the maximum recording interval for a minimum of a 3-month deployment.
	Output File	Internal output file is to be text based and contain, as a minimum, the following metadata: <ul style="list-style-type: none"> • User details • Software version (both sensor and interface software) • Log file details, including: <ul style="list-style-type: none"> • Site Name • Log file time zone • Log file start/stop details • Logging mode details • Log notes (e.g. date/time of download, battery/memory remaining) • Sensor details • Model & Serial Number
Power Source	Battery	<ul style="list-style-type: none"> • On-board battery must be rechargeable.
	Solar	<ul style="list-style-type: none"> • Battery recharged by integrated solar panels • sufficient to support autonomous operation (including data recording and data transmission)
Environmental	Materials	<ul style="list-style-type: none"> • Marine grade plastics • Material adequate to operate in tropical waters.
	Mooring	<ul style="list-style-type: none"> • Must have provisions to be moored
	Depth rating	<ul style="list-style-type: none"> • 50m (max. depth of bottom sensor under lot4)
	Flashing light	<ul style="list-style-type: none"> • Must satisfy IALA requirements
Validation (Same as lot1)	Field validation	<ul style="list-style-type: none"> • System must have undergone comparison test with other commercial system during co-located field test. • Test data, results and report must be available
	Lab validation	<ul style="list-style-type: none"> • Test data, results and report must be available. • Factory certificate must be supplied
Interface	Software	<ul style="list-style-type: none"> • User software is to have following capabilities: <ul style="list-style-type: none"> ○ MS Windows 10 compliant ○ Intuitive GUI (dashboard)

Functional Area	Parameter	Minimum Requirement
	Communication	Either: <ul style="list-style-type: none"> • Interface/download cable • Robust connectors, compatible with computer USB interface (or complete with adaptors if non-standard) Or Wireless communication capability Near Real Time Communication: <ul style="list-style-type: none"> • Communication via satellite or mobile network (e.g. 4G). System with both capabilities will be advantageous. • Support two-way communication • Capable to transmit real-time sensor data including positional tracking data.
	Notification	Geofencing capability
Warranty (Same as lot1)	Warranty Period	Minimum 3-year warranty
Training		<ul style="list-style-type: none"> • In-country training in Niue, and Tuvalu with a focus on equipment maintenance and calibration. • Training manual • Training report delivered after completion of the training

F. Delivery Requirements

Shipping is expected to be costed “door- to-door” and goods delivered as follow:

For Lot 1:

- All units delivered to Fiji

For Lot 2:

- 1 unit delivered to Cook Islands
- 1 unit delivered to Fiji

For Lot 3&4:

- 1 unit delivered to Niue
- 1 unit delivered to Fiji

Delivery should be as soon as possible, though no longer than 3 months after contract signing.

The bidder shall quote for items that are in stock only and notify SPC immediately if stock is not available and the expected date that the materials will be restocked.

The consultant will take on the responsibility of shipping the goods to the specified locations, ensuring a seamless delivery process. Notably, all expenses associated with the shipping endeavor, ranging from

packaging and shipping fees to potential risks, customs charges and delivering the good to the specified location (door to door delivery) will be fully covered by the consultant.

Ensure that all cost in the process of supply of goods and delivery should be clearly stated in the financial submission form.

All expenses associated with the setup, installation, and mounting of the equipment should be included in the financial proposal. Your organization will not provide additional funds for installation.

All fees related to routine maintenance, service contracts, and technical support beyond the warranty period should be covered in the financial proposal.

The costs for training programs, including user training, maintenance training, and technical support, should be accounted for in the financial proposal.

If country visits are necessary for installation, training, or maintenance, bidders should factor in financial submission for travel expenses.

Expenses related to communication methods, such as cellular data plans, satellite communication, or data transmission services, should be included.

SPC will not cover any communication and/or IT equipment for the duration of the assignment. The consultant is to ensure stable internet connection for zoom interactions when necessary. Any work-related expenses (software's, tools, office supplies etc...) shall be covered by the consultant

G. Warranty Requirements (when applicable)

The equipment should come with a minimum of 3-year warranty and delivered free from damage and defects.

Instruction for equipment installation, including mounting options and requirements must be provided with the equipments.

The equipment must meet the expected qualify standards as specified.

H. Reporting Arrangements

The bidder will directly be responsible to the SPC's Team Leader – Ocean Prediction and Monitoring for the delivery of the goods.

I.Scope of Bid Price and Schedule of Payments

- The bidder is expected to provide at minimal cost related to one of the four lots inclusive of delivery requirements indicated in section F.
- Indicative schedule of Payments
- The value of the contract will be based on milestones/outputs outlined in the table below.
- The terms of payment shall be in accordance with the provisions of Article 10 of the SPC General Conditions.

#	Milestone/Output	% Payment
1	Signing of contract (Advance payment)	20%

2	Delivery, quality checking and acceptance of equipment per Lots	60%
3	Training delivered	20%
	TOTAL	100%

Part 4: PROPOSAL EVALUATION MATRIX

4.1 Evaluation criteria & Score Weight

A two-stage procedure will be utilised to evaluate the proposals, with evaluation of the **Technical proposal** being completed prior to any **Financial proposal** being opened and compared.

The competencies which will be evaluated are detailed in [Part 3](#).

The evaluation matrix below also reflects the obtainable score specified for each evaluation criterion (technical requirement) which indicates the relative significance or weight of the items in the overall evaluation process.

The technical component, which has a total possible value of 700 points, will be evaluated using the following criteria.

Please note that the below evaluation criteria will be used for all lots.

Evaluation criteria	Score Weight (%)	Points obtainable
Mandatory requirements		
Email 1: <ul style="list-style-type: none"> a) Bidder's Letter of Application (Annex 1); b) Conflict of Interest Declaration (Annex 2); c) Information about the bidder and Due diligence (Annex 3); d) Technical proposal submission form (Annex4); <ul style="list-style-type: none"> a. The devices in Lot 3 & 4 must satisfy IALA requirements b. Business registration Email 2: <ul style="list-style-type: none"> e) Financial Form with password protection (Annex 5) 		Bidders will be disqualified if any of the requirements are not met
Technical requirements		
<u>(as per the minimums stated in the E. technical specifications (page 11))</u>		
Technical Requirement 1: Sensors		
Specify the: <ol style="list-style-type: none"> 1. Accuracy and precision of measurement 2. Measurement range for key parameters 3. Sensor calibration frequency and method 4. Compatibility with required parameters 	10%	100

Technical Requirement 2: Calibration and Maintenance		
This refers to the ease and guidance provided for calibration and maintenance tasks encompassing a significant part of the sustainability of the equipment	10%	100
Technical Requirement 3: Data Recording		
Describe the data types, logging, statistics, storage and output files	10%	100
Technical Requirement 4: Power Source		
This refers to the system's power source ensuring a minimum of 3-month recording	10%	100
Technical Requirement 5: Environmental		
Specify the systems parts and material used	5%	50
Technical Requirement 6: Validation		
This refers to test comparison, benchmark test, etc... the system was validated against	5%	50
Technical Requirement 7: Interface/communication		
This refers to the user ability to interact with the system	10%	100
Technical Requirement 8: Warranty		
Specify the required duration of the warranty for the equipment (refer to section G of the specification above)	5%	50
Technical Requirement 9: Training		
Specify the proposed training programs for users and maintenance personnel in the country (including training methods, user training curriculum and materials)	5%	50
Total score	100%	700

4.2 Financial evaluation

The financial component of the proposal will be scored on the basis of overall costs for the delivery of the goods and financial incentives and benefits provided to SPC. The lowest financial proposal will be awarded maximum 300 points and other financial offers and incentives will be awarded points as per the formula below:

$$\text{Financial Proposal score} = (\text{Lowest Price} / \text{Price under consideration}) \times 300$$

Part 5: PROPOSAL SUBMISSION FORMS

Annex 1: BIDDER'S LETTER OF APPLICATION

Dear Sir /Madam:

Having examined the Solicitation Documents, the receipt of which is hereby duly acknowledged, we the undersigned, offer to supply the required goods for the sum as may be ascertained in accordance with the Financial Proposal attached herewith and made part of this proposal.

We acknowledge that:

- SPC may exercise any of its rights set out in the Request for Proposal documents, at any time;
- The statements, opinions, projections, forecasts or other information contained in the Request for Proposal documents may change;
- The Request for Proposal documents are a summary only of SPC's requirements and is not intended to be a comprehensive description of them;
- Neither the lodgement of the Request for Proposal documents nor the acceptance of any tender nor any agreement made subsequent to the Request for Proposal documents will imply any representation from or on behalf of SPC that there has been no material change since the date of the Request for Proposal documents, or since the date as at which any information contained in the Request for Proposal documents is stated to be applicable;
- Excepted as required by law and only to the extent so required, neither SPC, nor its respective officers, employees, advisers or agents will in any way be liable to any person or body for any loss, damage, cost or expense of any nature arising in any way out of or in connection with any representations, opinions, projections, forecasts or other statements, actual or implied, contained in or omitted from the Request for Proposal documents.

We undertake, if our proposal is accepted, to commence and complete delivery of all items in the contract within the time frame stipulated.

We understand that you are not bound to accept any proposal you may receive and that a binding contract would result only after final negotiations are concluded on the basis of the Technical and Financial Components proposed.

For the Bidder: *[insert name of the company]*

Signature:

Name of the Bidder's representative: *[insert name of the representative]*

Title: *[insert Title of the representative]*

Date: *[Click or tap to enter a date]*

Annex 2: CONFLICT OF INTEREST DECLARATION

INSTRUCTIONS TO BIDDERS

What is a conflict of interest?

A conflict of interest may arise from economic or commercial interests, political, trade union or national affinities, family, cultural or sentimental ties, or **any other type of relationship or common interest between the bidder and any person connected with the contracting authority** (SPC staff member, consultant or any other expert or collaborator mandated by SPC).

Always declare a conflict

The existence of a potential or apparent conflict of interest does not necessarily prevent the bidder concerned from taking part in a tender process. **However, the declaration of the existence of such a conflict by the persons concerned is essential and allows SPC to take appropriate measures to mitigate it and prevent the associated risks.**

Bidders are therefore invited to declare any situation, fact or link which, to their knowledge, could generate a real, potential or apparent conflict of interest.

Declaration at any time

Conflicts of interest may arise at any time during the procurement process or the implementation of a contract (e.g. new partner in the project) or as a result of a change in personal life (e.g. marriage, inheritance, financial transaction, creation of a company). If such a relationship is found and could be perceived by a reasonable person as likely to influence a decision, a declaration of the situation is necessary. In case of doubt, a conflict situation must be declared.

Declaration for any person involved

A declaration must be completed for each person involved in the tender (principal representative of the bidder, possible subcontractors, consultant, etc.)

Failure

Failing to declare a potential conflict of interest may result in the bidder being refused a contract or placed on SPC's list of non-responsible suppliers.

DECLARATION

I, the undersigned, *[name of the representative of the Bidder]*, acting in the name and on behalf of the company *[name of the company]*, declare that:

<input type="checkbox"/>	To my knowledge, I am not in a conflict-of-interest situation
<input type="checkbox"/>	There is a potential conflict of interest with regard to my <i>[Choose an item]</i> . relationship with <i>[name of the person concerned]</i> in his or her capacity as <i>position/role/personal or family link with the person concerned</i> , although, to the best of my knowledge, this person is not directly or indirectly involved in any stage of the procurement process
<input type="checkbox"/>	I may be in a conflict of interest with regard to my <i>[Choose an item]</i> relationship with <i>[name of the person concerned]</i> in his or her capacity as <i>position/role/personal or family link with the person concerned</i> , as this person is, to the best of my knowledge, directly or indirectly linked to the procurement process
<input type="checkbox"/>	To my knowledge, there is another situation that could potentially constitute a conflict of interest: <i>[Describe the situation that may constitute a conflict of interest]</i>

In addition, I undertake to:

- declare, without delay, to SPC any situation that constitutes a potential conflict of interest or is likely to lead to a conflict-of-interest;
- not to grant, seek, obtain or accept any advantage, whether financial or in kind, to or from any person where such advantage constitutes an unfair practice or an attempt at fraud or corruption, directly or indirectly, or constitutes a gratuity or reward related to the award of the contract;
- to provide accurate, truthful and complete information to SPC in connection with this procurement process.

I acknowledge that I and/or my company and/or my business partners who are jointly and severally bidding on the **RFP 23-5610** may be subject to sanctions such as being placed on SPC's list of non-responsible vendors, if it is established that false statements have been made or false information has been provided.

For the Bidder: *[insert name of the company]*

Signature:

Name of the representative: *[insert name of the representative]*

Title: *[insert Title of the representative]*

Date: *[Click or tap to enter a date]*

Annex 3: INFORMATION ABOUT THE BIDDER AND DUE DILIGENCE

Please complete the following questionnaire and provide supporting documents where applicable.

VENDOR INFORMATION				
Are you already registered as an SPC vendor?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
1. Please provide information related to your entity.				
Company name	[Enter company name]	Address	[Enter address]	
Director/CEO	[Enter name of the executive person]	Position	[Enter position of the executive person]	
Business Registration/License number	[Enter company registration/license number (or tax number)]			
Date of business registration	[Enter date of business registration]			
Country of business registration	[Enter country of business registration]			
Status of the entity:				
<input type="checkbox"/> For-profit entity (company), <input type="checkbox"/> NGO, <input type="checkbox"/> International organisation, <input type="checkbox"/> Government body, <input type="checkbox"/> University, <input type="checkbox"/> Association, <input type="checkbox"/> Research Institute, <input type="checkbox"/> Other: [insert details]				
2. Please provide relevant documentation to support and verify the legal existence of the entity, the authority of its officer and proof of its address, such as:				
<input type="checkbox"/> Delegation of authority or power of attorney document <input type="checkbox"/> Certificate of business registration/license <input type="checkbox"/> Memorandum, Articles or Statutes of Association <input type="checkbox"/> Telephone, water, or electricity bill in the name of the entity <input type="checkbox"/> Bank account details bearing the name of the entity				
3. How many employees does your company and its subsidiaries have?			[provide answer]	
4. Do you have professional insurance against all risks in respect of your employees, sub-contractors, property and equipment?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
If 'No', what type of business insurance do you have?			[provide answer]	
5. Are you up to date with your tax and social security payment obligations?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
If 'No', please explain the situation:			[Provide details]	
6. Is your entity regulated by a national authority?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
If 'Yes', please specify the name:			[Insert name of the national regulation authority]	
7. Is your entity a publicly held company?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
8. Does your entity have a publicly available annual report?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
Please send SPC your audited financial statement from the last 3 financial years if available				

DUE DILIGENCE					
9. Does your entity have foreign branches and/or subsidiaries?			<input type="checkbox"/> Yes	<input type="checkbox"/> No	
If you answered 'yes' to the previous question, please confirm the branches:					
• Head Office & domestic branches			<input type="checkbox"/> Yes	<input type="checkbox"/> No	
• Domestic subsidiaries			<input type="checkbox"/> Yes	<input type="checkbox"/> No	
• Overseas branches			<input type="checkbox"/> Yes	<input type="checkbox"/> No	
• Overseas subsidiaries			<input type="checkbox"/> Yes	<input type="checkbox"/> No	
10. Does your entity provide financial services to customers determined to be high risk including but not limited to:					
Foreign Financial Institutions	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Casinos	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Cash Intensive Businesses	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Foreign Government Entities	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Non-Resident Individuals	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Money Service Businesses	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Other, please provide details:			[Provide details]		
11.If you answered 'yes' to any of the boxes in question 10, does your entity's policies and procedures specifically outline how to mitigate the potential risks associated with these higher risk customer types?				<input type="checkbox"/> Yes	<input type="checkbox"/> No
If 'Yes', please explain how:			[Provide explanation]		
12.Does your entity have a written policy, controls and procedures reasonably designed to prevent and detect fraud, corruption, money laundering or terrorist financing activities?				<input type="checkbox"/> Yes	<input type="checkbox"/> No
If 'Yes', please send SPC your policy in English.					
If 'No', what process does your entity have in place to prevent and detect money laundering or terrorist financing activities?				[provide answer]	
13.Does your entity have an officer responsible for anti-corruption, or anti-money laundering and counter-terrorism financing policy?				<input type="checkbox"/> Yes	<input type="checkbox"/> No
If 'Yes', please state that officer's contact details:			[Insert name and contact details]		
14.Has your entity or any of its current or former directors or CEOs ever filed for bankruptcy?				<input type="checkbox"/> Yes	<input type="checkbox"/> No
If 'Yes', please provide details:			[Provide details]		
15.Has your entity or any of its current or former directors or CEOs ever been the subject of any investigations or had any regulatory or criminal enforcement actions resulting from violations of any laws or regulations, including those relating to money laundering or terrorism financing?				<input type="checkbox"/> Yes	<input type="checkbox"/> No
If 'Yes', please provide details:			[Provide details]		

SOCIAL AND ENVIRONMENTAL RESPONSIBILITY (SER)

16.Does your entity have a written policy, controls and procedures to implement its Social and Environmental Responsibility (SER) commitments?				<input type="checkbox"/> Yes	<input type="checkbox"/> No
If 'Yes', please send SPC your policy in English.					
If 'No', what process does your entity have in place to ensure your social and environmental responsibility?				[provide answer]	
Does your Policy or Process cover the followings?					
<input type="checkbox"/> Child protection <input type="checkbox"/> Human rights <input type="checkbox"/> Gender equality <input type="checkbox"/> Social inclusion <input type="checkbox"/> Sexual harassment, abuse or exploitation <input type="checkbox"/> Environmental responsibility					
Please, outline the major actions you have undertaken in these areas:			[provide answer]		
17.Does your entity have an officer responsible for Social and Environmental Responsibility (SER)?				<input type="checkbox"/> Yes	<input type="checkbox"/> No
If 'Yes', please state that officer's contact details:			[Insert name and contact details]		

SUPPORTING DOCUMENTS (where relevant)

• Business registration/license proof	<input type="checkbox"/>
• Bank account details document	<input type="checkbox"/>
• Address of the entity and Authority of officer proofs	<input type="checkbox"/>
• Audited financial statement from the last 3 financial years	<input type="checkbox"/>
• Fraud, corruption, anti-money laundering and counter terrorist financing Policy	<input type="checkbox"/>
• SER Policy	<input type="checkbox"/>

I declare that the particulars given herein above are true, correct and complete to the best of my knowledge, and the documents submitted in support of this form are genuine and obtained legally from the respective issuing authority.

I declare that none of the funds received or to be received by my company will be used for criminal activities, including financing terrorism or money laundering.

By sending this declaration to SPC, I agree that my business and personal information may be used by SPC for due diligence purposes. I also understand and accept that SPC will treat any personal information it receives in connection with my proposal in accordance with its [Privacy Policy](#), and the [Guidelines for handling personal information of bidders and grantees](#).

For the Bidder: *[insert name of the company]*

Signature:

Name of the representative: *[insert name of the representative]*

Title: *[insert Title of the representative]*

Date: *[Click or tap to enter a date]*

Annex 4: TECHNICAL PROPOSAL SUBMISSION FORM

Technical Requirements	
Evaluation criteria	Response by Bidder
Experience and specified personnel/sub-contractors	
References:	Details for three references:
	1. Client's name: <i>[insert name of client 1]</i>
	Contact name: <i>[insert name of contact]</i>
	Contact details: <i>[insert contact details]</i>
	Value contract: <i>[insert value of contract]</i>
	2. Client's name: <i>[insert name of client 2]</i>
	Contact name: <i>[insert name of contact]</i>
	Contact details: <i>[insert contact details]</i>
	Value contract: <i>[insert value of contract]</i>
	3. Client's name: <i>[insert name of client 3]</i>
	Contact name: <i>[insert name of contact]</i>
	Contact details: <i>[insert contact details]</i>
	Value contract: <i>[insert value of contract]</i>
Personnel:	Details about personnel/sub-contractors (if applicable)
	Manager's experience: <i>[insert details about manager's experience]</i>
	Sub-contractor's experience: <i>[insert details about sub-contractors experience]</i>
Technical Requirements:	
Technical Requirement 1: Sensors Specify the: 1. Accuracy and precision of measurement 2. Measurement range for key parameters 3. Sensor calibration frequency and method 4. Compatibility with required parameters	<i>[Bidder's answer]</i>
Technical Requirement 2: Calibration and Maintenance This refers to the ease and guidance provided for calibration and maintenance tasks encompassing a significant part of the sustainability of the equipment	<i>[Bidder's answer]</i>

<p>Technical Requirement 3: Data Recording</p> <p>Describe the data types, logging, statistics, storage and output files</p>	<p><i>[Bidder's answer]</i></p>
<p>Technical Requirement 4:Power Source</p> <p>This refers to the system's power source ensuring a minimum of 3-month recording</p>	<p><i>[Bidder's answer]</i></p>
<p>Technical Requirement 5: Environmental</p> <p>Specify the systems parts and material used</p>	<p><i>[Bidder's answer]</i></p>
<p>Technical Requirement 6: Validation</p> <p>This refers to test comparison, benchmark test, etc... the system was validated against</p>	<p><i>[Bidder's answer]</i></p>
<p>Technical Requirement 7: Interface/ communication</p> <p>This refers to the user ability to interact with the system</p>	<p><i>[Bidder's answer]</i></p>
<p>Technical Requirement 8: Warranty</p> <p>Specify the required duration of the warranty for the equipment (refer to section G of the specification above)</p>	<p><i>[Bidder's answer]</i></p>
<p>Technical Requirement 9: Training</p> <p>Specify the proposed training programs for users and maintenance personnel in the country (including training methods, user training curriculum and materials)</p>	<p><i>[Bidder's answer]</i></p>

Lot 1

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
Sensor	Temperature	<ul style="list-style-type: none"> • Range: 10°C to 45°C • Resolution: 0.1°C • Accuracy: +/-0.1°C RDG 	•	•
	Conductivity/salinity	<ul style="list-style-type: none"> • Range: 0 to 100 mS/cm • Resolution: 0.01 mS/cm • Accuracy: +/- 2%RDG 	•	•
	Turbidity	<ul style="list-style-type: none"> • Range: 0-500 NTU (or FNU) • Resolution: 0.1 NTU (or FNU) • Accuracy: <5%RDG 	•	•
	pH	<ul style="list-style-type: none"> • Range: 0-14 pH units • Resolution: 0.01 pH unit • Accuracy: 0.2 pH units 	•	•
	Dissolved oxygen	<ul style="list-style-type: none"> • Range: 0-25 mg/L • Resolution: 0.01 mg/L • Accuracy: <5% RDG 	•	•
	Chl-a	<ul style="list-style-type: none"> • Range: 0-400 µg/L • Resolution: 0.1 µg/L • Accuracy: R2>0.95 	•	•
	Depth	<ul style="list-style-type: none"> • Range: 0-25m • Resolution: 0.01m • Accuracy: +/- 2% RDG 	•	•
	Set of spare sensors	<ul style="list-style-type: none"> • Chl-a • pH • DO • Turbidity 	•	•
Calibration and Maintenance	Calibration	<ul style="list-style-type: none"> • Calibration guide • Demonstrated easy calibration. • Supply of 4 years of calibration solutions • Frequency: Should not be less than every 4 weeks 	•	•

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
	Maintenance	<ul style="list-style-type: none"> • Maintenance guide • Demonstrated easy maintenance. • Supply of accessories for maintenance operation (when relevant) • Frequency: Not less than every 4 weeks(depending on site specific biofouling) 	•	•
	Wiper	<ul style="list-style-type: none"> • Must include wiper to help clean sensors during operation 	•	•
	Sustainability	<ul style="list-style-type: none"> • Demonstrate the advantage of the solution proposed towards strengthening the sustainability of the monitoring programme. 	•	•
Data Recording	Processing	<ul style="list-style-type: none"> • Onboard processing Integration time from 1 – 60 minutes	•	•
	Storage	Logging unit must have sufficient memory to support measurement of all parameters and derivatives at the maximum recording interval for a minimum of a 3-month deployment.		
	Output File	Internal output file is to be text based and contain, as a minimum, the following metadata: <ul style="list-style-type: none"> • User details • Software version (both sensor and interface software) • Log file details, including: <ul style="list-style-type: none"> • Site Name • Log file time zone • Log file start/stop details • Logging mode details • Log notes (e.g. date/time of download, battery/memory remaining) • Sensor details 		

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
		<ul style="list-style-type: none"> Model & Serial Number 		
Power Source	Battery	<ul style="list-style-type: none"> On-board battery must be rechargeable. must have sufficient battery to support measurement of all parameters and derivatives at the maximum recording interval for a minimum of a 3-month deployment. 	•	•
Environmental	Materials	<ul style="list-style-type: none"> Marine grade plastics Material adequate to operate in tropical waters. 	•	•
Validation	Field validation	<ul style="list-style-type: none"> System must have undergone comparison test with other commercial system during co-located field test Test data, results and report must be available 	•	•
	Lab validation	<ul style="list-style-type: none"> Must have undergone motion testing in controlled conditions. Test data, results and report must be available. Factory certificate must be supplied 	•	•
Interface	Software	<ul style="list-style-type: none"> User software is to have following capabilities: <ul style="list-style-type: none"> MS Windows 10 compliant Intuitive GUI (dashboard) 	•	•
	Communication	<p>Either:</p> <ul style="list-style-type: none"> Interface/download cable Robust connectors, compatible with computer USB interface (or complete with adaptors if non-standard) <p>Or:</p> <p>Wireless connection capability</p>		
	Signal	<ul style="list-style-type: none"> Clear signal showing system is on (recording) or off. 	•	•
	Handheld (optional)	<ul style="list-style-type: none"> Controller with relevant accessories to enable instantaneous water quality reading 	•	•

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
		(additional cost for 3 devices under lot1 to be provided separately)		
Warranty	Warranty Period	Minimum 3-year warranty		
Training		<ul style="list-style-type: none"> In-country training in Niue, Tuvalu and Cook Islands with a focus on equipment maintenance and calibration. Training manual Training report delivered after completion of the training 	•	•

LOT 2

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
Sensor (Same as lot1)	Temperature	<ul style="list-style-type: none"> Range: 10°C to 45°C Resolution: 0.1°C Accuracy: +/- 0.1°C RDG 	•	•
	Conductivity/salinity	<ul style="list-style-type: none"> Range: 0 to 100 mS/cm Resolution: 0.01 mS/cm Accuracy: +/- 2% RDG 	•	•
	Turbidity	<ul style="list-style-type: none"> Range: 0-500 NTU (or FNU) Resolution: 0.1 NTU (or FNU) Accuracy: <5% RDG 	•	•
	pH	<ul style="list-style-type: none"> Range: 0-14 pH units Resolution: 0.01 pH unit Accuracy: 0.2 pH units 	•	•
	Dissolved oxygen	<ul style="list-style-type: none"> Range: 0-25 mg/L Resolution: 0.01 mg/L Accuracy: <5% RDG 	•	•

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
	Chl-a	<ul style="list-style-type: none"> • Range: 0-400 µg/L • Resolution: 0.1 µg/L • Accuracy: R2>0.95 	•	•
	Depth	<ul style="list-style-type: none"> • Range: 0-25m • Resolution: 0.01m • Accuracy: +/- 2% RDG 	•	•
	Set of spare sensors	<ul style="list-style-type: none"> • Chl-a • pH • DO • Turbidity 	•	•
Calibration and Maintenance (Same as Lot1)	Calibration	<ul style="list-style-type: none"> • Calibration guide • Demonstrated easy calibration. • Supply of 4 years of calibration solutions • Frequency: not less than every 4 weeks 	•	•
	Maintenance	<ul style="list-style-type: none"> • Maintenance guide • Demonstrated easy maintenance. • Supply of accessories for maintenance operation (when relevant) • Frequency: not less than 4 weeks minimum. (depending on site specific biofouling) 	•	•
	Wiper	<ul style="list-style-type: none"> • Must include wiper to help clean sensors during operation 	•	•
	Sustainability	<ul style="list-style-type: none"> • Demonstrate the advantage of the solution proposed towards strengthening the sustainability of the monitoring programme. 	•	•
Data Recording	Processing	<ul style="list-style-type: none"> • Onboard processing Integration time from 1 – 60 minutes 	•	•

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
	Storage	logging unit must have sufficient memory to support measurement of all parameters and derivatives at the maximum recording interval for a minimum of a 3-month deployment.		
	Output File	Internal output file is to be text based and contain, as a minimum, the following metadata: <ul style="list-style-type: none"> • User details • Software version (both sensor and interface software) • Log file details, including: <ul style="list-style-type: none"> • Site Name • Log file time zone • Log file start/stop details • Logging mode details • Log notes (e.g. date/time of download, battery/memory remaining) • Sensor details • Model & Serial Number 		
Power Source	Battery	<ul style="list-style-type: none"> • On-board battery must be rechargeable. • must have sufficient battery to support minimum of 3 months deployment. 	•	•
	Solar	<ul style="list-style-type: none"> • Battery recharged by integrated solar panels • Sufficient to support autonomous operation (including data recording and data transmission) 	•	•
Environmental	Materials	<ul style="list-style-type: none"> • Marine grade plastics • Material adequate to operate in tropical waters. 	•	•
	Mount	<ul style="list-style-type: none"> • System must include all parts to be mounted on a coastal structure (e.g. Jetty) • A manual providing clear instruction for mounting the equipment must be supplied. 	•	•

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
		<ul style="list-style-type: none"> Online support to ensure successful installation must be provided. 		
Validation	Field validation	<ul style="list-style-type: none"> System must have undergone comparison test with other commercial system during co-located field test Test data, results and report must be available 	•	•
	Lab validation	<ul style="list-style-type: none"> Must have undergone motion testing in controlled conditions. Test data, results and report must be available. Factory certificate must be supplied 	•	•
Interface	Software	<ul style="list-style-type: none"> User software is to have following capabilities: <ul style="list-style-type: none"> MS Windows 10 compliant Intuitive GUI (dashboard) 	•	•
	Communication	<p>Either:</p> <ul style="list-style-type: none"> Interface/download cable Robust connectors, compatible with computer USB interface (or complete with adaptors if non-standard) <p>Or</p> <p>Wireless communication capability</p> <p>Near Real Time communication:</p> <ul style="list-style-type: none"> Communication via satellite or mobile network (i.e. 4G). System with both capabilities will be advantageous. Support two-way communication Capable to transmit real-time sensor data. 		
	Signal	<ul style="list-style-type: none"> Clear signal showing system is on (recording) or off. 	•	•

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
Warranty	Warranty Period	Minimum 3-year warranty		
Training		<ul style="list-style-type: none"> In-country training in Niue, and Cook Islands with a focus on equipment maintenance and calibration. Training manual Training report delivered after completion of the training 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">

LOT 3 & 4

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
Sensor	Temperature	<ul style="list-style-type: none"> Range: 10°C to 45°C Resolution: 0.1°C Accuracy: +/- 0.1°C RDG 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
	Conductivity/salinity	<ul style="list-style-type: none"> Range: 0 to 100 mS/cm Resolution: 0.01 mS/cm Accuracy: +/- 2% RDG 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
	Turbidity	<ul style="list-style-type: none"> Range: 0-500 NTU (or FNU) Resolution: 0.1 NTU (or FNU) Accuracy: <5% RDG 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
	pH	<ul style="list-style-type: none"> Range: 0-14 pH units Resolution: 0.01 pH unit Accuracy: 0.2 pH units 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
	Dissolved oxygen	<ul style="list-style-type: none"> Range: 0-25 mg/L Resolution: 0.01 mg/L Accuracy: <5% RDG 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
	Chl-a	<ul style="list-style-type: none"> Range: 0-400 µg/L Resolution: 0.1 µg/L Accuracy: R2>0.95 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
	Depth	<ul style="list-style-type: none"> • Range: 0-50m • Resolution: 0.01m • Accuracy: +/- 2% RDG 	•	•
	Position	<ul style="list-style-type: none"> • GNSS 	•	•
	Set of spare sensors	<ul style="list-style-type: none"> • Chl-a • pH • DO • Turbidity 	•	•
Calibration and Maintenance (same as Lot1)	Calibration	<ul style="list-style-type: none"> • Calibration guide • Demonstrated easy calibration. • Supply of 4 years of calibration solutions • Frequency: not less than every 4 weeks 	•	•
	Maintenance	<ul style="list-style-type: none"> • Maintenance guide • Demonstrated easy maintenance. • Supply of accessories for maintenance operation (when relevant) • Frequency: Not less than every 4 weeks (depending on site specific biofouling) 	•	•
	Wiper	<ul style="list-style-type: none"> • Must include wiper to help clean sensors 	•	•
	Sustainability	<ul style="list-style-type: none"> • Demonstrate the advantage of the solution proposed towards strengthening the sustainability of the monitoring programme. 	•	•
Data Recording (Same as Lot1)	Processing	<ul style="list-style-type: none"> • Onboard processing Integration time from 1 – 60 minutes	•	•
	Storage	logging unit must have sufficient memory to support measurement of all parameters and derivatives at the maximum recording interval for a minimum of a 3-month deployment.		

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
	Output File	<p>Internal output file is to be text based and contain, as a minimum, the following metadata:</p> <ul style="list-style-type: none"> • User details • Software version (both sensor and interface software) • Log file details, including: <ul style="list-style-type: none"> • Site Name • Log file time zone • Log file start/stop details • Logging mode details • Log notes (e.g. date/time of download, battery/memory remaining) • Sensor details • Model & Serial Number 		
Power Source	Battery	<ul style="list-style-type: none"> • On-board battery must be rechargeable. 	•	•
	Solar	<ul style="list-style-type: none"> • Battery recharged by integrated solar panels • sufficient to support autonomous operation (including data recording and data transmission) 	•	•
Environmental	Materials	<ul style="list-style-type: none"> • Marine grade plastics • Material adequate to operate in tropical waters. 	•	•
	Mooring	<ul style="list-style-type: none"> • Must have provisions to be moored 	•	•
	Depth rating	<ul style="list-style-type: none"> • 50m (max. depth of bottom sensor under lot4) 	•	•
	Flashing light	<ul style="list-style-type: none"> • Must satisfy IALA requirements 	•	•
Validation (Same as lot1)	Field validation	<ul style="list-style-type: none"> • System must have undergone comparison test with other commercial system during co-located field test. • Test data, results and report must be available 	•	•
	Lab validation	<ul style="list-style-type: none"> • Test data, results and report must be available. • Factory certificate must be supplied 	•	•

Functional Area	Parameter	Minimum Requirement	Proposed (add details on brand, origin, ...)	Alternative (if any)
Interface	Software	<ul style="list-style-type: none"> User software is to have following capabilities: <ul style="list-style-type: none"> MS Windows 10 compliant Intuitive GUI (dashboard) 	•	•
	Communication	<p>Either:</p> <ul style="list-style-type: none"> Interface/download cable Robust connectors, compatible with computer USB interface (or complete with adaptors if non-standard) <p>Or</p> <p>Wireless communication capability</p> <p>Near Real Time Communication:</p> <ul style="list-style-type: none"> Communication via satellite or mobile network (e.g. 4G). System with both capabilities will be advantageous. Support two-way communication Capable to transmit real-time sensor data including positional tracking data. 		
	Notification	Geofencing capability		
Warranty (Same as lot1)	Warranty Period	Minimum 3-year warranty		
Training		<ul style="list-style-type: none"> In-country training in Niue, and Tuvalu with a focus on equipment maintenance and calibration. Training manual Training report delivered after completion of the training 	•	•

For the Bidder: *[insert name of the company]*

Signature:

Name of the representative: *[insert name of the representative]*

Title: *[insert Title of the representative]*

Date: *[Click or tap to enter a date]*

Annex 5: FINANCIAL PROPOSAL SUBMISSION FORM

Please provide the price in every lot either as a kit or per single items.

Lot 1 - Integrated water quality sensors

Item	Item Description	Quantity required	Unit Price	Total Price
1	multi-probe solution	18		
2	sets of spare sensors	6		
	Total			
	Delivery to Fiji (DAP)			

Lot 2 – Fully integrated real-time water quality monitoring solution mountable on coastal structure (e.g. jetty).

item	Item Description	Quantity required	Unit Price	Total Price
1	2x multi-probe solution (1 unit being for backup)	2		
2	sets of spare sensors	1		
3	mounting accessories	2		
4	Power source	2		
5	data logging and telemetry	1		
6	1 year of data transfer fees	1	(monthly or yearly)	
	Total			
	Delivery Cook Islands (DAP)	1		
	Delivery Fiji (DAP)	1		

Lot 3 – Environmental buoy including 1 integrated water quality sensor providing real-time data.

Item	Item Description	Quantity required	Unit Price	Total Price
1	environmental buoy	2		
2	2 x multi-probe solution (1 unit being for backup)	1		
3	1 set of spare sensors	1		
4	mooring (top section)	1		
5	1 year data transfer fee	1		
	Total			

	Delivery to Niue (DAP)			
	Delivery to Fiji (DAP)			

Lot 4 - Environmental buoy including 3 integrated water quality sensors (surface, middle, bottom) providing real-time data.

item	Item Description	Quantity required	Unit price	Total Price
1	environmental buoy	2		
2	smart mooring	1		
3	6 x multi-probe solution (3 unit being for backup)	6		
4	set of spare sensors	1		
5	1 year data transfer fee	1		
	Total			
	Delivery to Niue (DAP)			
	Delivery to Fiji (DAP)			

The financial form is to be password protected.

Ensure that all costs associated with the supply and delivery of goods are explicitly stated and included in the fees. SPC will not cover any extra charges for overhead or any other related costs. Therefore, please ensure that all costs are incorporated into the fees provided in the table above..

The consultant will take on the responsibility of shipping the goods to the specified locations, ensuring a seamless delivery process. Notably, all expenses associated with the shipping endeavor, ranging from packaging and shipping fees to potential risks, customs charges and delivering the good to the specified location (door to door delivery) will be fully covered by the consultant.

Ensure that all cost in the process of supply of goods and delivery should be clearly stated in the financial submission form and added to the lump sum fees.

For the Bidder: *[insert name of the company]*

Signature:

Name of the representative: *[insert name of the representative]*

Title: *[insert Title of the representative]*

Date: *[Click or tap to enter a date]*