



## UNIDADE DE GESTÃO DE PROJECTOS ESPECIAIS

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Av. China, Edif. Tribunal Constitucional, 3º andar  
CP: 145, Chã-d'Areia, Cidade da Praia, Cabo Verde  
Telefones: (+238) 261 75 84 / 261 61 98  
[www.governo.cv](http://www.governo.cv)

### **REQUEST FOR QUOTATION**

**RFQ No: 033-SOE-UGPE**

**REQUEST FOR QUOTATION SUPPLY, ACTUALIZATION AND DENSIFICATION OF  
THE PERMANENT GNSS STATIONS NETWORK IN CABO VERDE.**

**Client:** Ministério das Finanças /Unidade de Gestão de Projetos Especiais

**Country:** Republic of Cabo Verde

**Project:** CABO VERDE STATE OWNED ENTERPRISES RELATED FISCAL  
MANAGEMENT PROJECT

**Issued on: October 31, 2022**

**Amended: November 28, 2022**

# INVITATION FOR QUOTATION

**Country:** Republic of Cabo Verde

**Project Name:** STATE OWNED ENTERPRISES RELATED FISCAL MANAGEMENT PROJECT

**PROJECT ID Nº:** P160796

**Contract Title:** - Supply, actualization and densification of the permanent GNSS stations network in Cabo Verde

**RFQ Reference Nº:** RFQ -033-SOE-UGPE

**Credit No.:** IDA-69240

**Date:** October 31, 2022

1. The Government of Cabo Verde has received from the International Development Association – IDA / World Bank (hereafter named “World Bank”), a credit to fund the state-owned enterprises related fiscal management Project (“the Project”) aiming to strengthen State Owned Enterprises (SOE) related fiscal management.

2. The Unidade de Gestão de Projectos Especiais (UGPE) now invites quotation from eligible bidders to: **Supply, actualization and densification of the permanent GNSS stations network in Cabo Verde.** More details are provided in the Request for Quotation.

3. The Supplier will be selected in accordance with the Request for quotation (RFQ) methods set in “Procurement Regulations for IPF Borrowers”, dated July 2016 and revised in November 2020 (“Procurement Regulations”), and is open to all eligible bidders as defined in the Procurement Regulations.

4. Interested eligible Bidders may obtain further information from the implementing agency, Unidade Gestão de Projectos Especiais through email [Irenalina.b.vicente@mf.gov.cv](mailto:Irenalina.b.vicente@mf.gov.cv) / [Madelene.David@mf.gov.cv](mailto:Madelene.David@mf.gov.cv) and, if necessary, inspect the bidding document during office hours from 9 am to 1700 at the address given below. Or can be found published at the following websites: [www.minfin.gov.cv](http://www.minfin.gov.cv) <https://ugpe.gov.cv/>

Through Email: [Irenalina.b.vicente@mf.gov.cv](mailto:Irenalina.b.vicente@mf.gov.cv) / [Nuno.gomes@mf.gov.cv](mailto:Nuno.gomes@mf.gov.cv) / [Madelene.David@mf.gov.cv](mailto:Madelene.David@mf.gov.cv)

5. The bidding document in English language only may be requested by interested Bidders upon the submission of a written application/email through email address or to the address given below.

**6. The Deadline for quotation submission in extended until December 13 2022 at 15h00 Cabo Verde Time.**

**7. Quotation shall be opened publicly at December 13, at 15h30 local time in the UGPE room and online. A link for online attendance will be share with all bidders that submit quotation before the opening date. The record of the quotation opening shall be share to all Bidders that submit quotation.**

8. Electronic submission will be permitted. Please check the Request for quotation document for instructions

9. The Purchaser shall not consider any quotation received after the deadline for quotation submission. Any quotation received after the deadline shall be declared late quotation will be rejected.

10. The Purchaser reserves de right to not selected any Supplier if it not fulfills the condition.

We look forward to receiving your quotation and thank you for your interest.

Yours sincerely

Nuno Gomes

Coordinator

**Unidade de Gestão de Projetos Especiais**

**Nuno Gomes – Coordinator**

**Av. China, Edifício Tribunal Constitucional, 3º Andar Chã d´Areia -**

**Cidade da Praia, Ilha de Santiago C.P.nº 145**

**Telephone: +(238) 261 7584/5939,**

**Republica de Cabo Verde**

**[Emails: Nuno.Gomes@mf.gov.cv/ Irenalina.b.vicente@mf.gov.cv/ Madelene.david@mf.gov.cv /](mailto:Nuno.Gomes@mf.gov.cv/)**

The present RFQ includes the following documents:

- **Chapter I** - special conditions of the tender - this chapter provides information to assist bidders in preparing their quotation it also presents information on the submission, opening and evaluation of quotation and, further, on the award of the proposed contract;
- **Chapter II** - List of Goods, Related Services and Delivery Schedule: this chapter includes the Technical Specifications of the goods to be procured, the Delivery Schedule and Deadline;
- **Chapter III**: Quotation Submission Form: this chapter includes the forms to be completed by the Bidder and submitted as part of its quotation.

**CHAPTER I: SPECIAL CONDITIONS OF THE TENDER**

<b>1. Introduction</b>	
<b>Country:</b>	Republic of Cabo Verde
<b>Project:</b>	State Owned Enterprises (SOE) related fiscal management.
<b>Credit no.:</b>	Credit IDA: 6924-CV
<b>Project ID</b>	P160796
<b>Purchaser's Name and Address:</b>	Unidade de Gestão de Projeto Especiais (UGPE) Ministério das Finanças e do Fomento Empresarial Avenida China, Prédio Tribunal Constitucional, 3º andar, Chã de Areia - Cidade da Praia Ilha de Santiago – Cabo Verde Telefone (238) 261 7584/5939 Correio Eletrónico: <a href="mailto:Nuno.Gomes@mf.gov.cv">Nuno.Gomes@mf.gov.cv</a>
<b>2. Elaboration of quotation</b>	
<b>Request for Clarification:</b>	For clarification purposes only, the Purchaser's address is:  Attention: Nuno Gomes Electronic mail address: <a href="mailto:irenalina.b.vicente@mf.gov.cv">irenalina.b.vicente@mf.gov.cv</a> ; C/c : <a href="mailto:madelene.david@mf.gov.cv">madelene.david@mf.gov.cv</a> ; <a href="mailto:Nuno.Gomes@mf.gov.cv">Nuno.Gomes@mf.gov.cv</a>  Requests for clarification should be received by the Purchaser no later than: no later than 10 days prior to the submission deadline i.e <b>November 28, 2022:</b>  Answer to the clarifications will be publish on the following website: <a href="https://ugpe.gov.cv/">https://ugpe.gov.cv/</a>
<b>Language</b>	The language of the quotation is: English.
<b>The quotation shall consist of the following Documents:</b>	<b>The quotation shall consist of the following Documents:</b>  1 (one) original of the quotation, in printed version and digital version on pen drive (for quotation delivered in closed envelope) in the quotation submission forms 2 (two) copies of the quotation; Catalogs (or color copies of catalogs) of the equipment requested;

	<p>Experience and technical capacity: the bidder must provide documentary evidence attesting to its experience through a list of similar contracts/customers signed in the last 24 months;</p> <p>Authorization of the Manufacturer: the Bidder must provide documentary proof that the equipment it offers meets the usage requirements, authorization from the manufacturer.</p> <p>Quotations must provide a comprehensive description of the proposed items, clearly indicating the technical specifications accompanied, for example, by brochures or catalogs.</p> <p>The Bidders must prove its legality in the market and its professional experience;</p>
<p><b>Alternative quotations:</b></p>	<p>Alternative quotation <b>shall not be</b> considered.</p>
<p><b>Final Destination of goods and related Services:</b></p>	<p>Final Destination:</p> <p><b>Instituto Nacional de Gestão do Território (INGT) Ponta Belém – Plateau - Praia, Ilha de Santiago, Cabo Verde.</b></p> <p>For details on the final destination for the goods and related services, please verify the List of Goods, Related Services and Delivery Schedule (Requested by the Purchaser) and technical specification.</p>
<p><b>Proposed prices:</b></p>	<p>The prices proposed by bidders must be fixed throughout the contract:</p> <ul style="list-style-type: none"> <li>- Quotations must be free of taxes;</li> <li>- Quotations must take into account all costs related to the delivery of the goods and related services to the indicated delivery address.</li> </ul> <p>All goods, works and services for the Project, Cabo Verde: State Owned Enterprises (SOE) related fiscal management are exempts of VAT payment. The Project is exempted from payment of VAT, in the Client's country as per the Law 53/VI/2005 and Decree-Law 88/2005 of December 26, 2005.</p> <p>There is no tax exemption in the Client's country, for local payments, e.g. revenue taxes, VAT for personal acquisitions, as per the Law nº10/VIII/2011 – December 30, 2011.</p>

	The prices shall be quoted by the bidder in: <b>EUROS, USD, CVE.</b>
<b>Quotation Validity:</b>	The validity of quotations is 120 days from the deadline for submission of quotations.
<b>Period of warranty of the goods:</b>	The goods must be guaranteed for a minimum of 2 years from the date of acceptance.
<b>3. Submission of Quotation</b>	
<b>Address for Quotation submission:</b>	<p>Quotation shall be submitted:</p> <p><b>Option I:</b> By email to the following addresses <a href="mailto:Nuno.Gomes@mf.gov.cv">Nuno.Gomes@mf.gov.cv</a> C/c <a href="mailto:Irenalina.B.Vicente@mf.gov.cv">Irenalina.B.Vicente@mf.gov.cv</a>/ <a href="mailto:Madelene.David@mf.gov.cv">Madelene.David@mf.gov.cv</a>;</p> <p><b>The email shall mandatory and clearly marked “ RFQ Reference Nº: RFQ - SOE-UGPE: Supply, actualization and densification of the permanent GNS stations network in Cabo Verde</b></p> <p>For submission of quotation, through the e-mail address indicated the quotation shall be protected with a password.</p> <p>Quotation protected with a password, the password will be requested promptly after the deadline for quotation submission through e-mail address.</p> <p><b>The Client will not assume any responsibility for:</b></p> <ul style="list-style-type: none"> <li>- Quotation submit through email address without password protection.</li> <li>- Not submitting of password on time</li> </ul> <p><b>Option II:</b> In closed envelope: <b>Identified envelope [Name and Address of the Bidder]</b> <b>Mention: [Do not Open before December 13, 2022 at 15h00/ NÃO ABRIR ANTES DO DIA 13 DE DEZEMBRO 2022 AS 15H00]</b> <b>“RFQ Reference Nº: RFQ -033-SOE-UGPE: Supply, actualization and densification of the permanent GNSS stations network in Cabo Verde”</b></p> <p><b>Unidade de Gestão de Projetos Especiais - UGPE</b></p>

	<p>Ed. Tribunal Constitucional 3º piso Av. China   Rampa Terra Branca –  Chã d’Areia   Cidade da Praia</p> <p>- ZIP Code: C.P.145</p> <p>Country: Republic of Cabo Verde</p>
Deadline for Quotation submission	<p><b>The deadline for quotation submission is:</b></p> <p><b>Date: The deadline for quotation submission is extended until December 13, 2022</b></p> <p><b>Time: 3:00pm (CV time)</b></p> <p><b>The opening of the received quotation will take place December 13, 2022, at 15h30 in the below address</b></p>
Public Opening of Quotation	<p><b>i) Unidade de Gestão de Projetos Especiais - UGPE</b>  <b>Ed. Tribunal Constitucional 3º piso Av. China   Rampa Terra Branca –  Chã d’Areia   Cidade da Praia</b>  <b>- ZIP Code: C.P.145</b>  <b>Country: Republic of Cabo Verde</b></p> <p><b>ii) and through a link.</b>  <b>A link for the opening will be share on due course, with all supplier that submit quotation.</b></p> <p>A copy of the record shall be distributed to all Bidders that submitted quotation.</p>
<b>4. Quotation evaluation</b>	
Information for post qualification:	<p>The information required for the qualification of a Bidder shall be:</p> <ul style="list-style-type: none"> <li>- At least 2 years of experience in supplying the goods required in this tender demonstrated through a list of similar contract for the last 24 months;</li> <li>- Demonstration to the Client's satisfaction that the Bidder has implemented sufficient safety measures and is safety conscious, enabling it to perform the contract safely and professionally.</li> </ul>
Evaluation criteria of quotation:	<p>The evaluation of the quotation will take into consideration:</p> <ul style="list-style-type: none"> <li>- the proposed price,</li> <li>- Responsiveness to the request in the technical Specification</li> </ul>



	<ul style="list-style-type: none"> <li>- Delivery Schedule indicated in the Quotation;</li> <li>- Deviations of the payment schedule from the schedule indicated in this invitation;</li> <li>- Demonstration to the client's satisfaction that the firm has adequate security measures in place and is security conscious, enabling it to fulfill the provisions of the contract in a safe and skillful manner;</li> <li>- Legally established firm with experience in supplying and installing similar equipment for at least two (2) years;</li> <li>- Demonstrated installation capability.</li> </ul>
<b>5. Contract Award</b>	
<b>Award methodology</b>	The Purchaser shall award the contract to the Bidder whose quotation meets the qualification criteria, is substantially responsive and offer the lowest evaluated quotation.
<b>Purchaser's Right to Vary Quantities at Time of Award</b>	The Client reserves the right to increase or decrease the quantities of each item up to 15%.
<b>Procurement Related Complaint</b>	<p>The procedures for making a Procurement-related Complaint are detailed in the "<a href="#">Procurement Regulations for IPF Borrowers</a> (Annex III)." If a Bidder wishes to make a Procurement-related Complaint, the Bidder should submit its complaint following these procedures, in writing (by the quickest means available, that is either by email or fax), to:</p> <p style="padding-left: 40px;">For the attention: Nuno Gomes</p> <p style="padding-left: 40px;">Title/position: Coordinator</p> <p style="padding-left: 40px;">Purchaser: Unidade de Gestão de Projetos Especiais - Ministério das Finanças</p> <p style="padding-left: 40px;">Email address: <a href="mailto:Nuno.Gomes@mf.gov.cv">Nuno.Gomes@mf.gov.cv</a> ;</p> <p style="padding-left: 40px;">CC: <a href="mailto:irenalina.b.vicente@mf.gov.cv">irenalina.b.vicente@mf.gov.cv</a>; <a href="mailto:madelene.david@mf.gov.cv">madelene.david@mf.gov.cv</a></p> <p>In summary, a Procurement-related Complaint may challenge any of the following:</p> <ol style="list-style-type: none"> <li>1. the terms of the Bidding Documents; and</li> <li>2. the Purchaser's decision to award the contract.</li> </ol>
<b>3. Contract Condition</b>	
<b>Schedule of payment:</b>	<p>The payment schedule will be as follows:</p> <p>20% of the Contract amount - will be paid upon delivery of all equipment and a claim for payment supported by the certificate of delivery signed by both Parties;</p>

	<p>40% of the Contract amount will be paid upon installation, configuration, upgrade, mounting and testing of all equipment and delivery of a claim for payment supported by a certificated of acceptance of successful testing</p> <p>40 % of the Contract amount will be paid upon delivery and approval of a report on Training in Management, Maintenance and Conservation of Permanent Stations.</p>
<b>Condition of payment:</b>	Payments will be made within 30 (thirty) days from the date the invoices are presented and accepted

**CHARPTER II - List of Goods, Related Services and Delivery Schedule  
(Requested by the Purchaser)**

Description	Qty	Specifications/ Requirements of equipment		Related Services	Place where services will be implemented	Final dates for the Goods delivery
<b>Item Number 1 #</b> Multi-constellation GNSS Geodetic Receiver and its Accessories	2	<b>Constellation Signs</b>	GPS; GLONASS; GALILEO; BEIDOU; SBAS; QZSS; Optional by firmware upgrade: IRNSS L5	Installation, configuration, and test	In the municipalities of: <ul style="list-style-type: none"> <li>• Ribeira Grande de Santo Antão;</li> <li>• Ribeira Brava, São Nicolau.</li> </ul>	Minimum of 12 - 15 weeks from the signing of the contract
		<b>Logging sessions (minimum);</b>	8 (eight)			
		<b>Internal storage (minimum);</b>	16 GB			
		<b>Average power consumption</b>	<3,5W			
		<b>Electricity</b>	Ethernet Circuit;			
		<b>Capacity to perform real measurements</b>	50 Hz (Code, carrier, and navigation), including output;			
		<b>Model</b>	At least 5 IGS (International GNSS Service) stations			
		<b>Firmware updates</b>	Free for the commercial life of the product			
		Capability to completely disable the mitigation of multipath and smoothing algorithms;				
		Adaptive filters for broadband attenuation and for interference attenuation fitting;				
		Capability to perform real 50 Hz measurements (code, carrier and navigation), including output;				
<b>Obs:</b> <u>All the necessary for the normal operation of the equipment, including cables, adapters, among others.</u>						

		Free firmware upgrades for the commercial life of the product;				
<b>Item Number 2 #</b> Geodetic Antennas and their accessories	2	<b>Multi-frequency</b>	GPS/GLONASS/GALILEO/BEIDOU/SBAS/QZSS with support for phase center shift corrections mandatorily available in the IGS.	Installation, configuration, and test	In the municipalities of: <ul style="list-style-type: none"> <li>• Ribeira Grande de Santo Antão;</li> <li>• Ribeira Brava, São Nicolau.</li> </ul>	Minimum of 12 - 15 weeks beginning on the date of the contract signature
		with support for phase center shift corrections mandatorily available in the IGS.				
		<b>Obs:</b> <u>All the necessary for the normal operation of the equipment, including the support and fixing structure, cables, adapters, among others.</u>				
<b>Item Number 4 #</b> Routers	7	<b>Mobile module</b>	4G (LTE) – Cat 4 up to 150 Mbps, 3G – Up to 42 Mbps, 2G – Up to 236.8 kbps	Installation, configuration, and test	In the municipalities of: <ul style="list-style-type: none"> <li>• São Filipe, Fogo;</li> <li>• Santa Cruz, Santiago;</li> <li>• Boa Vista;</li> <li>• Espargos, Sal Island</li> <li>• São Vicente</li> <li>• Ribeira Grande de Santo Antão;</li> <li>• Ribeira Brava, São Nicolau.</li> </ul>	Minimum of 12 - 15 weeks beginning on the date of the contract signature
		<b>SIM switch</b>	2 SIM cards			
		<b>Status</b>	Signal strength (RSSI), SINR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID			
		<b>SMS</b>	SMS status, SMS configuration, send/read SMS via HTTP POST/GET, EMAIL to SMS, SMS to EMAIL, SMS to HTTP, SMS to SMS, scheduled SMS, SMS autoreply, SMPP			
		<b>Band management</b>	Band lock, Used band status display			
		<b>Bridge</b>	Direct connection (bridge) between mobile ISP and device on LAN			
	2	Photovoltaic Plate	The source of power supply to the GNSS system, must be properly sized using photovoltaic solar energy, containing at least the following elements: Solar panel, charge regulator, battery, cables and accessories, complying with the following fundamental criteria:  A monocrystalline panel (silicon) for each GNSS station, with at least a 15-year warranty.	Installation/Upgrade, Configuration and Test	In the municipalities of: <ul style="list-style-type: none"> <li>• Ribeira Grande de Santo Antão;</li> <li>• Ribeira Brava, São Nicolau.</li> </ul>	Minimum of 12 - 15 weeks beginning on the date of the contract signature

<b>Item Number 5 #</b> Photovoltaic Solar Kit						
	7	Battery	A 12 V stationary battery, for each GNSS station, with autonomy capacity to power the system for at least 5 days, in the absence of the solar radiation.	Installation/Upgrade, Configuration and Test	In the municipalities of: <ul style="list-style-type: none"> <li>• São Filipe, Fogo;</li> <li>• Santa Cruz, Santiago;</li> <li>• Boa Vista;</li> <li>• Espargos, Sal Island</li> <li>• São Vicente</li> <li>• Ribeira Grande de Santo Antão;</li> <li>• Ribeira Brava, São Nicolau.</li> </ul>	Minimum of 12 - 15 weeks beginning on the date of the contract signature
	7	Charge Regulator	Support of a line current 25% higher than the short-circuit current of the photovoltaic generator, under standard measurement conditions.			
	7	Cables	(a) Photovoltaic panel circuit - charge regulator; (b) charge regulator - battery; (c) regulator - GNSS Geodetic receiver; (d) cables for connection to the auxiliary power system on the grid, in case of failure of the photovoltaic solar system.			
	N/D	Accessories	All accessories for the normal operation of the equipment, including the structure of support and mounting among others, for both new and existing stations.			
<b>Item Number 7 #</b> Metal cabinet for receiver	3	<b>Sizes: (HxBxC)</b>	500X400X200 mm	Installation /Mounting	In the municipalities of: <ul style="list-style-type: none"> <li>• Ribeira Grande de Santo Antão;</li> <li>• Ribeira Brava, São Nicolau; e</li> <li>• Boa Vista</li> </ul>	Minimum of 12 - 15 weeks beginning on the date of the contract signature
		<b>Installation</b>	Surface			
		<b>Type of closure</b>	Double Lock Key 5 mm			
		<b>Weight</b>	< 11.35 Kg			
		<b>Degree of protection</b>	Fully protected against dust and water penetration and contact with internal parts.			

<b>Item Number 8 #</b> Stations Management Software	1	Minimum characteristics:	<ul style="list-style-type: none"> <li>✓ Real-time stations monitoring;</li> <li>✓ Controlled access to station data;</li> <li>✓ Independent integrated system of the GNSS receiver brand/model;</li> <li>✓ Based on web services independent of the operating system and with the possibility of being installed in the Cloud;</li> <li>✓ Support for different types of communication between the server and CORS (fixed IP, ssh-tunnel, standalone);</li> <li>✓ Security - restricted access to data and meta-data files;</li> <li>✓ Management tools - user access control, CORS management, etc;</li> <li>✓ E-mail notifications;</li> <li>✓ Statistics on network performance;</li> <li>✓ Integrated caster for broadcasting of RTK corrections of the stations;</li> <li>✓ Automatic calculation of the stations' positions with a maximum latency of 3 days;</li> <li>✓ Licenses for 10 stations;</li> <li>✓ Support for a minimum of 3 years (with all updates).</li> </ul>	Installation, Configuration, Test and Training.	N/D	Minimum of 12 - 15 weeks beginning on the date of the contract signature
<b>Item Number #9</b> Training in Management, Maintenance and Conservation of Permanent Stations.	1	<b>General Contents</b>	<ul style="list-style-type: none"> <li>✓ GPS basic principles (GNSS Stations);</li> <li>✓ Components Maintenance and Conservation;</li> <li>✓ Data collection and processing;</li> <li>✓ Stations management and monitoring.</li> </ul>	N/D	<b>INGT</b> – National Institute for Territorial Management.	Minimum of 12 - 15 weeks beginning on the date of the contract signature
		<b>Duration</b>	<ul style="list-style-type: none"> <li>✓ Minimum de 20 horas.</li> </ul>			
		<b>Trainees</b>	<ul style="list-style-type: none"> <li>✓ Técnicos do INGT.</li> </ul>			



## TECHNICAL SPECIFICATION

### 1. FRAMEWORK

Presently, several applications require the knowledge of their position in real-time in order to achieve the desired result. The Global Navigation Satellite System (GNSS) has proven to be the most effective and efficient way of positioning on a global scale, using a GNSS receiver to determine its position with an accuracy of a few millimeters. However, for the centimeters level, as the precise point positioning (PPP), it is necessary to use the differential mode (directly or indirectly).

In the case of differential position, in Post-Processing (PP) or Real Time Kinematic (RTK) observation, the GNSS observations of nearby Base stations, of which the position is well known, are used to determine their relative position. Whatever form the observations take, they need to be corrected either by PP or the Real-Time Correction method to achieve a higher positioning accuracy. In the case of RTK mode, these corrections are mostly pseudoranges (distance measurements), positional data, and models (ephemerides) such as the ionosphere. These are simultaneously measured for all satellites in view, and using the known position of the antenna receiver of each satellite, the errors in the pseudoranges and models are calculated at both the Base and the GNSS rover receivers. These errors are converted into correction data at the Base station and transmitted to the GNSS Rover receivers in real-time.

As various applications are emerging to solve many positioning problems, the need for improvement regarding real-time positioning solutions is increasing. However, the issues of transmitting this real-time correction data have been a cause for concern. This is because the use of various time correction data transmission methods such as frequency modulation radio (FMR) has proven ineffective in terms of cost, efficiency, and coverage. The advancement of the Internet and telecommunications has attracted the interest of researchers in using the Internet as a communication channel for the distribution of real-time GNSS correction data. Network transport of RTCM via Internet Protocol (NTRIP), which is a protocol that supports the transmission of GNSS correction data via the Internet for real-time positioning, seems to be one of the best solutions for GNSS.

The Permanent GNSS (Global Navigation Satellite Systems) Stations Network of Cabo Verde consists of five permanent stations, one (1) in each island, located in the City of Mindelo on the island of São Vicente, in the City of Espargos, island of Sal, in the City of Sal Rei on the island of Boavista, City of Pedra Badejo on the island of Santiago and in the City of São Filipe, island of Fogo,



respectively. For their safety and protection of the system, they are located in the buildings of the City Halls of the respective municipality.

There are two more permanent stations on the island of Fogo, Mosteiros and Monte Beco, which were installed in the scope of a project funded by the Foundation for Science and Technology (Portugal). These stations should also be integrated into the permanent stations' network of Cabo Verde.

## 2. OBJECTIVE

The overall objective is to upgrade the 5 stations and to further densify the permanent station network with two (2) new GNSS reference stations.

## 3. RELATED SERVICES

### Service 1: Upgrade of the 5 (five) Permanent Stations.

This service requires the upgrade of 5 permanent stations (see image below) installed on the islands of Sal, Santiago, Fogo, São Vicente, so that they can ensure the continuous functioning, data storage on a server, as well as the transmission and remote access to them, and their management through a web application. It should also integrate the two stations installed on Fogo Island (Mosteiros and Monte Beco) in the scope of the FIRE project.



Figure 1 - Location of the GNSS Antennas

The equipment of the existing stations are stored in appropriate technical boxes, and their replacement should be ensured in case they already show some damage.

Continuous and redundant power supply should be ensured by installing solar panels in each station. A router with dedicated firmware should also be installed in each station, which enables remote access without the need for fixed IP and direct access to the station's corrections using the NTRIP - *Networked Transport of RTCM via Internet Protocol*.

**Service 2- Acquisition, installation, observation, and integration of two (2) new stations in the Permanent Stations Network of Cabo Verde.**

This activity requires the acquisition, installation, and observations of two (2) more permanent stations on the islands of São Nicolau and Santo Antão (see figure 1). These stations should have at least the same characteristics as the antennas already installed on the 5 islands, including the GNSS system, access to the receiver, and RTK corrections via the Internet and photovoltaic system, so they can ensure national coverage and the continuous functioning, as well as the data transmission and remote access to them, and their management through the web application.

a) GNSS equipment

It is intended that the bidders submit proposals in accordance with the technical specifications / steady minimum technical requirements for the following equipment:

Quantity	Description
2	Multi-constellation Geodetic GNSS Receivers
2	Geodetic Antennas
	Accessories

a) Installation of the two (2) new GNSS stations

High-quality antennas and geodetic receivers should be installed according to international GNSS Services Standards (IGS) - the proposed equipment should have already been installed in at least 5 stations of the IGS network.

The communication between the station and the Control Center (CC) shall be permanent, with the purpose of continuously monitoring the stations from the CC and allowing timely transfer of data

from the stations to the Control Center (CC). It is mandatory to have remote access to the station via static IP.

The stations should be completely autonomous in terms of energy through the installation of solar panels and batteries.

**Service 3 - Training in Management, Maintenance and Conservation of Permanent Stations.**

The company shall provide training to INGT technicians focused on network maintenance and the use of GNSS data. This training must have a minimum duration of 20 hours for INGT technicians.

**4. DELIVERABLES**

The firm shall deliver the following products:

Products	Activities	Qty	Output	Deadlines
<b>Detailed Work Plan</b>	It should contain all the tasks to be implemented, the material and human resources and the description of the methodology to be used for each of the activities, and a detailed schedule for the execution of the tasks;	1	Work Plan	2 weeks after contract signature.
<b>Activity Report 1</b>	It should describe the initial results, the progress made, the difficulties met and expected in the implementation.	1	- Fogo (São Filipe), Santiago (Santa Cruz), São Vicente (Mindelo), Sal (Espargos) and Boavista (Sal Rei) stations updated; - Activity Report 1 - Station update sheets.	8 to 10 weeks after contract signature
<b>Activity Report 2</b>	It should describe the initial results, the progress made, the difficulties met and expected in the implementation.	1	-Two stations installed and their respective coordinates (São Nicolau and Santo Antão) and integrated in the Permanent Station Network of Cabo Verde; - São Nicolau and Santo Antão stations installation sheets);	10 to 12 weeks after contract signature
<b>Activity Report 3</b>	Should describe the results of the training action for the INGT technicians, focused on the management and maintenance of the network and the use of GNSS data.	1	- Management Manual for the Permanent Stations Network of Cabo Verde. - User's Manual of the Permanent Stations Network of Cabo Verde.	12 to 15 weeks after contract signature
<b>Final Report</b>	It should describe the initial results, the progress made, the difficulties met and expected in the implementation.		Final Report	5 days before the end of the Contract
<b>Total</b>		<b>5</b>		<b>3 months</b>

### CHAPTER III: QUOTATION SUBMISSION FORMS

*[The Supplier shall fill in this Form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.]*

<b>From:</b>	<b>[Insert JV / Supplier's name]</b>
<b>Supplier's Representative:</b>	[Insert name of JV/ Supplier's Representative]
<b>Title/Position:</b>	[Insert Representatives title or position]
<b>Address:</b>	[Insert Supplier's address]
<b>Email:</b>	[Insert Supplier's email address]

<b>To:</b>	<b>[Insert Purchaser's name]</b>
<b>Purchaser's Representative:</b>	[Insert name of Purchaser's Representative]
<b>Title/Position:</b>	[Insert Representatives title or position]
<b>Address :</b>	[Insert Purchaser's address, <b>including email</b> ]
<b>Reference ID No.: [insert number, if any]</b>	
<b>Date of Quotation:</b>	[insert date (as day, month and year) of quotation Submission]

Dear [insert name of Purchaser's Representative]:

#### SUBMISSION OF QUOTATION

##### 1. Conformity and no reservations

In response to the advertisement for quotation, we offer to supply the Goods, [**add if applicable**: "and deliver the Related Services,"].

##### 2. Eligibility

If awarded the Contract, the Goods [**add if applicable**: "and Related Services,"] that we supply shall be sourced from an eligible country.

We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and their development banks. Further, we are not ineligible

under the Purchaser’s Country laws or official regulations or pursuant to a decision of the United Nations Security Council.

**3. Offered Price**

The total price of our quotation is *[insert the total price of the offer in words and figures, indicating the various amounts and the respective currencies]*.

**4. Validity of the Offer**

Our offer shall be valid until *[insert date]*.

**5. Commissions, gratuities, fees**

We have paid, or will pay the following commissions, gratuities, or fees with respect to this offer.

*[If none has been paid or is to be paid, indicate “none.”]*

Name of Recipient	Address	Reason	Amount

**6. Not Bound to Accept**

We understand that you reserve the right to:

- a. accept or reject the offer, and
- b. annul the direct contracting process at any time prior to the award of the Contract.

**7. Fraud and Corruption**

We hereby certify that we have taken steps to ensure that no person acting for us, or on our behalf, engages in any type of Fraud and Corruption.

**8. Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH):** *[select the appropriate option from (i) to (iii) below and delete the others. In case of JV members and/or subcontractors, indicate the status of disqualification by the Bank of each JV member and/or subcontractor].*

We, including any of our subcontractors:

- (i) [have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]
- (ii) [are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]

- (iii) [had been subject to disqualification by the Bank for non-compliance with SEA/SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.]

On behalf of the Supplier:

**Name of the Bidder:** \*[insert complete name of the Bidder]

**Name of the person duly authorized to sign the Bid on behalf of the Bidder:** \*\*[insert complete name of person duly authorized to sign the Bid]

**Title of the person signing the Bid:** [insert complete title of the person signing the Bid]

**Signature of the person named above:** [insert signature of person whose name and capacity are shown above]

**Date signed** [insert date of signing] **day of** [insert month], [insert year]

\*: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder.

\*\* : Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

# Bidder Information Form

*[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]*

Date: *[insert date (as day, month and year) of Bid submission]*

RFQ No.:

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

Page \_\_\_\_\_ of \_\_\_\_\_ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each member: <i>[insert legal name of each member in JV]</i>
3. Bidder's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information  Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i>  <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITB 4.4. <input type="checkbox"/> In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1. <input type="checkbox"/> In case of state-owned enterprise or institution, in accordance with ITB 4.6 documents establishing: <ul style="list-style-type: none"><li>• Legal and financial autonomy</li><li>• Operation under commercial law</li><li>• Establishing that the Bidder is not under the supervision of the Purchaser</li></ul>
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. <i>[If required under BDS ITB 45.1, the successful Bidder shall provide additional information on beneficial ownership, using the Beneficial Ownership Disclosure Form.]</i>

# Bidder's JV Members Information Form

*[The Bidder shall fill in this Form in accordance with the instructions indicated below. The following table shall be filled in for the Bidder and for each member of a Joint Venture].*

Date: *[insert date (as day, month and year) of Bid submission]*

RFQ No.:

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

Page \_\_\_\_\_ of \_\_\_\_\_ pages

1. Bidder's Name: <i>[insert Bidder's legal name]</i>
2. Bidder's JV Member's name: <i>[insert JV's Member legal name]</i>
3. Bidder's JV Member's country of registration: <i>[insert JV's Member country of registration]</i>
4. Bidder's JV Member's year of registration: <i>[insert JV's Member year of registration]</i>
5. Bidder's JV Member's legal address in country of registration: <i>[insert JV's Member legal address in country of registration]</i>
<p>6. Bidder's JV Member's authorized representative information</p> <p>Name: <i>[insert name of JV's Member authorized representative]</i></p> <p>Address: <i>[insert address of JV's Member authorized representative]</i></p> <p>Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Member authorized representative]</i></p> <p>Email Address: <i>[insert email address of JV's Member authorized representative]</i></p>
<p>7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i></p> <p><input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.4.</p> <p><input type="checkbox"/> In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and that they are not under the supervision of the Purchaser, in accordance with ITB 4.6.</p>
<p>8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. <i>[If required under BDS ITB 45.1, the successful Bidder shall provide additional information on beneficial ownership for each JV member using the Beneficial Ownership Disclosure Form.]</i></p>



# Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment Performance Declaration

*[The following table shall be filled in by the Bidder, each member of a Joint Venture and each subcontractor proposed by the Bidder]*

Bidder's Name: *[insert full name]*

Date: *[insert day, month, year]*

Joint Venture Member's or Subcontractor's Name: *[insert full name]*

RFB No. and title: *[insert RFB number and title]*

Page *[insert page number]* of *[insert total number]* pages

<b>SEA and/or SH Declaration in accordance with Section III, Qualification Criteria, and Requirements</b>
We: <input type="checkbox"/> (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations <input type="checkbox"/> (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations <input type="checkbox"/> (c) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.
<b><i>[If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]</i></b>

# Beneficial Ownership Disclosure Form

**INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE FORM**

*This Beneficial Ownership Disclosure Form (“Form”) is to be completed by the successful Bidder<sup>1</sup>. In case of joint venture, the Bidder must submit a separate Form for each member. The beneficial ownership information to be submitted in this Form shall be current as of the date of its submission.*

*For the purposes of this Form, a Beneficial Owner of a Bidder is any natural person who ultimately owns or controls the Bidder by meeting one or more of the following conditions:*

- *directly or indirectly holding 25% or more of the shares*
- *directly or indirectly holding 25% or more of the voting rights*
- *directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder*

**RFQ No.:** *[insert number of RFQ process]*

**To:** *[insert complete name of Purchaser]*

In response to your request in the Letter of Acceptance *dated [insert date of letter of Acceptance]* to furnish additional information on beneficial ownership: *[select one option as applicable and delete the options that are not applicable]*

(i) we hereby provide the following beneficial ownership information.

**Details of beneficial ownership**

Identity of Beneficial Owner	Directly or indirectly holding 25% or more of the shares  (Yes / No)	Directly or indirectly holding 25 % or more of the Voting Rights  (Yes / No)	Directly or indirectly having the right to appoint a majority of the board of the directors or an equivalent governing body of the Bidder  (Yes / No)
<i>[include full name (last, middle, first), nationality, country of residence]</i>			

**OR**

(ii) *We declare that there is no Beneficial Owner meeting one or more of the following conditions:*

- directly or indirectly holding 25% or more of the shares
- directly or indirectly holding 25% or more of the voting rights
- directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder

**OR**

(iii) *We declare that we are unable to identify any Beneficial Owner meeting one or more of the following conditions. [If this option is selected, the Bidder shall provide explanation on why it is unable to identify any Beneficial Owner]*

- directly or indirectly holding 25% or more of the shares
- directly or indirectly holding 25% or more of the voting rights
- directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder”

**Name of the Bidder:** *\*[insert complete name of the Bidder]*\_\_\_\_\_

**Name of the person duly authorized to sign the Bid on behalf of the Bidder:** *\*\*[insert complete name of person duly authorized to sign the Bid]*\_\_\_\_\_

**Title of the person signing the Bid:** *[insert complete title of the person signing the Bid]*\_\_\_\_\_

**Signature of the person named above:** *[insert signature of person whose name and capacity are shown above]*\_\_\_\_\_

**Date signed** *[insert date of signing]* **day of** *[insert month], [insert year]*\_\_\_\_\_

\* In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder. In the event that the Bidder is a joint venture, each reference to “Bidder” in the Beneficial Ownership Disclosure Form (including this Introduction thereto) shall be read to refer to the joint venture member.

\*\* Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

## Manufacturer's Authorization

*[The Supplier shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]*

Date: *[insert date (as day, month and year) of offer submission]*  
Request for Invitation for Direct Contracting No.: *[insert reference number if applicable]*

To: *[insert complete name of Purchaser]*

### WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of the Supplier]* to submit an offer the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 20 of the Conditions of Contract, with respect to the Goods offered by the above firm.

We confirm that we do not engage or employ (i) forced labor or persons subject to trafficking in accordance with Clause 27 or (ii) child labor in accordance with Clause 28, of the Conditions of Contract. We also confirm that we comply with applicable health and safety obligations in accordance with Clause 29 of the Conditions of Contract.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ *[insert date of signing]*



# Price Schedule for Goods and Related Services

## List of Goods, Related Services and Delivery Schedule Proposed by the Supplier

Date: \_\_\_\_\_  
RFQ No.: \_\_\_\_\_

Name of the Bidder: \_\_\_\_\_

Item Nº	Description	Qty	Unit Price	Total Price	Final Destination as specified in the tender documents	Related service	Place where the related services will be implemented	Final dates for the Goods delivery/ completion of related services

CURRENCY OF QUOTATION: \_\_\_\_\_

Warrant/ Guarantee offered \_\_\_\_\_

Date of validity of offer \_\_\_\_\_

Duly authorized to sign the bid for and on behalf of \_\_\_\_\_

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*Dated on* \_\_\_\_\_ *day of* \_\_\_\_\_