

## Invitation to tender

Procurement No: 2022/2

2.3.2022.

Zeraxo d.o.o., for the purposes of the project Marine Pass supported by a grant from Norway through the Norwegian Financial Mechanism 2014 - 2021, in the frame of the Programme "Business Development and Innovation Croatia", announces the procurement:

### *Acquisition of consulting services – technical consultancy*

Project name:

**Marine Pass, 2020/563111**

Contractor:

Name:	ZERAXO d.o.o. za informatiku i usluge
Address:	Petrova 53 4, 10000 Zagreb, Croatia
OIB:	25157435812
Mobile:	385 91 5923184
Web:	www.zeraxo.com

Contact:

First name, last name: Borna Neuhold

Email: [marinepass@zeraxo.com](mailto:marinepass@zeraxo.com)

Procurement description:

The subject of the procurement is a **technical consultancy service – 832-man hours** for the needs of the project.

The subject of procurement is not divided into groups. The bidder is obliged to submit a bid for 832-man hours.

"Or equivalent" applies to all items of the subject of procurement.

Estimated value of procurement: 50.000,00 Eur

## Description of the subject of procurement:

### Purpose:

A technical consultancy service refers to analyses of hardware, software, and network capabilities and consulting for management and other departments as required. A primary responsibility includes documenting processes and monitoring system performance metrics while ensuring that computer hardware remains compatible with software updates. Also, implementation of the latest technological advancements and solutions to improve system efficiency are expected.

For the project, one key expert is needed: technical consultant.

### Qualifications of the key expert:

- A Master's or Bachelor's Degree in Computer Science, Information Technology, Information Systems, Computer Engineering, or similar
- At least five (5) years of relevant professional experience in a similar position and with similar responsibilities

NOTE: relevant experience will be evaluated based on the proposed key expert curriculum vitae

### Responsibilities:

- helping describe the system's logic, API interface for the Orchestrator portal, web admin, web user portal and mobile applications
- keeping track of the project progress, recommending better technical approaches for every aspect of the project (web and mobile applications, network and hardware)
- solving severe issues
- not under the influence of the project team

### Project segments:

1. Experimental development and testing of the principles of communication and real-time performance for performing the required functionalities of loading and unloading passengers and luggage on vessels:
  - communication and integration possibilities of individual HW and network system components (Wi-Fi, narrow band, etc.)
  - real-time server and cloud system performance to perform required functionalities
  - real-time performance of hardware circuitry to perform required functionalities
  - assessment of the level of usability of the existing prototype in the production of the product
2. Concept formulation, upgrades and development, individual verification of key parts of the hardware parts of the system:
  - Setting up the HW system architecture
  - Hardware communication module (Wi-Fi, ethernet, narrow band)
  - RFID setup, testing on multiple units
3. Formulation of the concept, upgrade and development of key parts for the software parts of the system:

- Setting up the SW system architecture
  - Database - finishing and creation of new segments
  - Defining and creating the BE part of the system (User, Orchestrator and Admin portal, SaaS)
  - Defining and developing the northbound API
  - Defining and developing the southbound API
  - SaaS end user portal - front end
  - Application, testing and exploitation of block-chain technology for the purposes of system decentralization
4. Integration and testing of all key parts in the complete Marine Pass system, verification in the operating environment:
- HW module integration and verification
  - SW module integration of the End user portal and verification
  - SW module integration for the Orchestrator and Admin portal and verification
  - SW module integration of the SaaS
  - Corrections and refinements of the system
  - Preparing for commercialization

#### Deadline and address for submission of bids:

The deadline for submission of bids is 7 calendar days and runs from the first day following the date of publication of this Invitation.

The bids can be submitted to the e-mail address: [marinepass@zeraxo.com](mailto:marinepass@zeraxo.com)

#### Documentation to be submitted by the bidder:

The bid should be submitted:

1. on the bidder's official memorandum, from which the subject of procurement is clearly visible, and which specifies cost per man hour, and total value of the bid
2. CV of the key expert, from which minimal requested qualifications must be clearly visible.

The language of the bid documentation can be: English or Croatian.

#### Consultancy contract duration:

Max. 12 months from the signing of the contract.

#### Venue of execution of subject of procurement:

ZERAXO d.o.o. za informatiku i usluge, Gacka 16, 10000 Zagreb, Croatia

#### Terms and conditions of payment:

Payment:

- Monthly, according to the certified record of men hours, and according to the issued invoice

Bid awarding criteria:

**The most commercial advantageous Offer.**

The evaluation will be based on the comparison between quality and price.

The Contractor will select the most commercial advantageous Offer among all the acceptable offer based on predefined criteria:

Criteria	Maximum number of points
Offer price (OP)	40 points
Relevant professional experience of the proposed key expert (KE)	60 points
<b>Maximum number of points</b>	<b>100 points</b>

The total amount of points for individual bidder will be calculated by summing up points obtained for each criterion:

$$TP = OP + KE$$

TP = total points for the bid

OP = number of points gained for offer price

KE = number of point gained for the key expert experience

The most economically advantageous bid is a valid bid with the highest total number of points (TP).

The calculation of the number of points will be expressed to two decimal places.

If two or more valid tenders are equally ranked according to the tender selection criteria, the contracting authority will select the tender received earlier.

The method of scoring for each of the criteria, the absolute and relative share of the criteria in the total score and the way of proving each criterion is defined in addition:

**OFFER PRICE (OP)**

The maximal number of points for this criterion which a bidder can receive is 40.

The bidder who has submitted the bid with lowest price will gain maximal number of points.

The point value according to this criterion is calculated according to the following formula:

$$OP = P_{MIN}/P_X * 40$$

OP = total number of points for the price

$P_X$  = the price of the bid which is being evaluated

$P_{MIN}$  = the lowest price among all the acceptable offers

40 – maximal number of points for the criteria

**RELEVANT PROFESSIONAL EXPERIENCE OF THE PROPOSED KEY EXPERT (KE)**

To proof the experience of the key expert, for the purpose of the evaluation of the bid regarding this criterion, the bidder must submit:

1. Curriculum vitae for the key expert from which it must be clearly visible:

- education or acquired level of education
- number of years of relevant professional experience

Relevant professional experience (KE) (n= number of years)	$n = 5$	<b>0</b>
	$6 \leq n \leq 7$	<b>20</b>
	$8 \leq n \leq 10$	<b>40</b>
	$n > 10$	<b>60</b>

[Additional information:](#)

The bidder may request additional information at the e-mail address: [marinepass@zeraxo.com](mailto:marinepass@zeraxo.com)