Invitation to tender

Procurement No: 2022/5

15.3.2022.

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 development service and programming

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

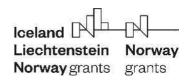Email: marinepass@zeraxo.com

Procurement description:

The subject of the procurement **is a development service and programming – 1260-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 1260-man hours.

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

Estimated value of procurement: 50.000,00 Eur

Iceland
Liechtenstein
Norway grants
Norway
grants

Innovation
Norway

Description of the subject of procurement:

Purpose:

Development service and programming refers to full stack development and quality assurance.

For the project, two key experts are needed: Full stack developer and Quality assurance – tester.

Full stack developer is a developer that works on both sides of the application. Understands and connects back-end logic and front-end visual representation.

Development of the core logic of the application will be done using Microsoft ASP.NET Core technologies and the user side of the application using FE technologies (HTML/CSS, React, Redux, JS, etc.).

Quality assurance – tester is a quality assurance technician or an engineer that will primarily be responsible for testing the software for defects or issues. Also, ensuring that the product meets all required standards and guidelines necessary for it to be marketed to end consumers.

Qualifications of the key experts:

- 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 key expert curriculum vitae.

Responsibilities:

Full stack developer:

- understanding the system's logic and API interface for the Orchestrator portal, web admin, web user portal and mobile applications
- developing back-end and front-end of web and mobile applications
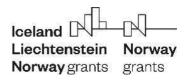
Quality assurance – tester:

- understanding end-user needs
- testing the system logic and UX/UI of applications - the Orchestrator portal, web admin, web user portal and mobile applications
- describing potential issues

Project segments:

Formulation of the concept, upgrade and development of key parts for the software parts of the system:

- 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
- Testing connectivity and integration to existing hardware
- Identity and authentication server

- Orchestrator portal - front end
- Admin portal - front end
- End user Web portal - front end
- Web site integration snippets
- SaaS end user portal - front end
- Research, application, upgrade and development of information processing algorithms
- Resolving "noise" in the data set, development and application of correct models for collecting relevant system information
- Application, testing and exploitation of block-chain technology for the purposes of system decentralization

Integration and testing of all key parts in the complete Marine Pass system, verification in the operating environment:

- 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
- Testing the market usable system
- Corrections and refinements of the system

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

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:
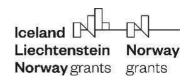Max. 12 months from the signing of the contract.

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 man 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)	**80** points
Maximum number of points	**120** points

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 points gained for the key expert's 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.
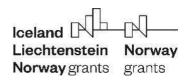The point value according to this criterion is calculated according to the following formula:

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

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)
The maximal number of points for this criterion which a bidder can receive is 80.

KE = KE 1 + KE 2

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

1. Curriculum vitae for the key experts from which it must be clearly visible:
   - education or acquired level of education
   - number of years of relevant professional experience

Relevant professional experience full stack developer (KE 1) (n= number of years)	*n = 5*	**0**
	6 ≤ *n* ≤ 7	**20**
	8 ≤ n ≤ 10	**30**
	n > 10	**40**
Relevant professional experience Quality assurance – tester (KE 2) (n= number of years)	n = 5	**0**
	6 ≤ n ≤ 7	**20**
	8 ≤ n ≤ 10	**30**
	n > 10	**40**

Additional information:
The bidder may request additional information at the e-mail address: marinepass@zeraxo.com