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Zagreb, 24.09.2020

Project number:	KK.01.2.1.01.0045
Procurement	38
number from the	
procurement plan	

TENDER DOCUMENTATION (TD)

Invitation to Tender for the procurement of radio devices for video signals and data transmission with associated equipment

No. 38 of procurement KK.01.2.1.01.0045

1. INFORMATION ON THE CLIENT

Name of the customer: DOK-ING d.o.o.

Address: Slavonska avenija 22 G, 10 000 Zagreb, Croatia

PIN: 39982657045

 Internet address:
 http://www.dok-ing.hr/

 E-mail:
 eunabava@dok-ing.hr

 Telephone:
 +385 1 2481-300

 Fax:
 +385 1 2481-303

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2. INFORMATION ON THE CONTACT PERSON FOR COMMUNICATION WITH THE SUPPLIERS

Communication and any other exchange of information between the Client and the Bidder shall be conducted solely by e-mail. All questions and requests for clarification may be sent by e-mail to: eunabava@dok-ing.hr. Communication, exchange and storage of information shall be carried out in such a way as to preserve the protection and confidentiality of data in accordance with the relevant national regulations.

The Client shall respond to a request for additional information and clarifications only if it is sent by e-mail to the above-mentioned address. For the purpose of equal treatment of all bidders, answers shall be made available at the same location, i.e. https://strukturnifondovi.hr/, where this Invitation to Tender was published without revealing the identity of the economic operator.

If during publication there is a need to modify this invitation or submit other notices related to the preparation and submission of bids, it shall be published in a transparent manner and at the same time in order that all economic operators may be aware of the modification.

Below is a list of economic operators in connection with which the Client has a conflict of interest and with which the Client, in the framework of this procurement procedure, may not conclude Procurement Contracts in the capacity of a bidder, a member of the bidding consortium or a subcontractor to the selected bidder:

- DOK-ING ENERGO d.o.o. za proizvodnju postrojenja i opreme i distribuciju električne energije, Slavonska avenija 22/G, Zagreb, PIN: 95862798984
- P.B. ŽITNJAK d.o.o. za projektiranje, građenje i nadzor, Slavonska avenija 24/6, Zagreb, PIN: 45541373330
- DOK-ING RUDARSTVO d.o.o. za proizvodnju postrojenja i opreme za rudarstvo, Slavonska avenija 22/G, Zagreb, PIN: 02513851520
- VJ-eko d.o.o. za proizvodnju i usluge, Ladihovićeva 18, Slunj, PIN: 44599829843
- TERMOTERRA d.o.o. za trgovinu i usluge, Donja Čemernica 151, Topusko, PIN: 06446316904
- INFINIA SUSTAVI d.o.o., Ulica Mirka Viriusa 14, Zagreb, PIN: 50003866900
- DOK-ING NEKRETNINE d.o.o. za poslovanje nekretninama, Slavonska avenija 22/G, Zagreb, PIN: 41345717895
- DOK-ING Africa (Pty) Ltd., 237 Joseph Street, CNR Nyewerheid, Gemiston 1401, Johannesburg, Republic of South Africa
- ADP-ESOP d.o.o. za savjetovanje u vezi s poslovanjem i upravljanjem, Jankomir 5, Zagreb, PIN: 61829722473

3. COMMENCEMENT OF THE PUBLIC PROCUREMENT PROCEDURE

The date of commencement of the public tender procedure is the date of publication of the Contract Notice on the website www.strukturnifondovi.hr



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4. TYPE OF PROCUREMENT PROCEDURE

The Procurement Procedure with Mandatory Publication is applied (Rules on the Implementation of Procurement Procedures for Entities not Bound by the Public Procurement Act, version 4.0)

5. DESCRIPTION OF PROCUREMENT SUBJECT

The customer procures radio devices for video signal transmission and data transfer, as well as associated components for the video system.

The equipment offered must comply with the technical specifications set forth in item 6.

The procurement subject is divided into two lots.

Lot I. Procurement of a radio device for data transfer and associated equipment

Lot II. Procurement of a radio device for video signal transmission and associated equipment

Bidding by lots is permitted, both for one or both procurement lots. The bidder shall offer all items within one lot.

Issuance of the purchase order to the selected Bidders or Bidder is foreseen for this procurement, and in case of unsuccessful bidding, the Client may cancel the procedure only for the individual lot for which failure is determined.

The components offered shall be in line with the technical characteristics set forth in item 6 of this documentation. Failure to meet the requested requirements excludes a Bidder from the selection process. In case of suspicion of deviations from the required technical characteristics, the Client reserves the right to request the Bidder to submit additional technical sheets, excerpts from the catalogue and other documents on the basis of which it is possible to determine the validity of the offered component.

All interested bidders are obliged to take into account the relevant annexes to this documentation when preparing their bids.

The annexes to this documentation are the following:

- ANNEX I Tender Sheet
- ANNEX II Bill of Quantities



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Procurement subject:

Lot I: Procurement of a radio device for data transfer and associated equipment

- Delivery of equipment for wireless transfer of IP data (Ethernet interface) with communication antennas and GPS antennas, as well as other associated equipment* (connection cables, mounting brackets, batteries, etc.)
- Vehicle antennas and control center, in terms of their characteristics, must cover the entire frequency range of the radio modem operation, with connections for connecting to radio modems.

*It is mandatory to deliver the associated equipment for equipment installation, wiring for connecting the components, batteries, chargers and other equipment necessary for integrating the system with the vehicle and the control center

vehicle and the control center	
1. Vehicle radio controller	1 pc
Datasheets	attach a document with the offer
The item must comply with the requirements as per technical s	pecifications, chapter 6.1.1.
2. Radio controller for the control center	1 pc
Datasheets	attach a document with the offer
The item must comply with the requirements as per technical s	pecifications, chapter Error! Reference
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3. Radio modem (vehicle + control center)	2 pcs
Datasheets	attach a document with the offer
The item must comply with the requirements as per technical s	pecifications, chapter 6.1.1.
4. Vehicle antennas	3 pcs
5. Control center antennas	3 pcs
6. Vehicle GPS antenna	1 pc
7. Control center GPS antenna	1 pc
8. Other associated equipment*	1 SET
9. User instructions in Croatian and / or English	submit upon delivery
Lot II. Procurement of a radio device for video signal tran	smission and associated equipment
1. Vehicle video transmitter	1 pc
Datasheets	attach a document with the offer
The item must comply with the requirements as per technical s	pecifications, item 6.2.1.
2. Video receiver	1 pc
3. Antennas	3 pcs
Datasheets	attach a document with the offer
The item must comply with the requirements as per technical s	pecifications, item 6.2.2.
4. User instructions in Croatian and / or English	submit upon delivery

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6. TECHNICAL SPECIFICATIONS

6.1. Lot I: Procurement of a radio device for data transfer and associated equipment

6.1.1. Technical specification of the radio controller and modem

Supply voltage	8 - 28Vdc
Frequency range	4400 – 5000 MHz
Channel bandwidth	5/10/20 MHz
Maximum data throughput	≥ 120 Mbps
Maximum total transmit power	≥ 9W
Supported modulation modes	64QAM/16QAM/QPSK
Encryption standard	SHA-256
Maximum modules dimensions	40 mm X 70 mm X 200 mm
Communication interface(s)	1x Ethernet
	1x Serial
	1x HD video input
Operating temeperature range	-40 ÷ 85 °C
Ingress Protection (IP)	≥ IP68
Additional options	- Support minimum 3x3 MIMO
	 Interchangeable RF modules
	 Integrated video encoder
	- Built-in GPS
	- Integrated Android OS

6.2. Lot II. Procurement of a radio device for video signal transmission and associated equipment

6.2.1. Technical specification of the radio module

Supply voltage	9 - 30V _{DC}
Frequency range	2200 – 2500 MHz
Maximum transmit power	≥ 5W
Supported modulation modes	QPSK/16QAM
Maximum dimensions	330 mm X 200 mm X 45 mm
Configuration interface(s)	RS232 or RS485
Video interface	CVBS
Operating temeperature range	-10 ÷ 60 °C
Additional options	H.264 encoder/decoder
Encryption	AES / 3DES

6.2.2. Technical specification of the antenna

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Antenna type	Omnidirectional
Antenna gain	≥ 3 dB
RF power	≥ 5 W
Antenna connector	N-Type male

7. PREPARATION AND SUBMISSION OF BIDS

The bid shall be submitted electronically, by e-mail to the address specified in item 1 of this Invitation to Tender.

By submitting their bid, the Bidder accepts in full and without any reservations all of the conditions laid out in this Invitation to Tender.

The bid is prepared in such a way that it forms a whole, and the content of the bid is as follows:

- Filled-in tender sheet, Annex I
- Filled-in bill of quantities, Annex II, in Excel and PDF document
- Bid in the Bidder's free format**

** The bid shall be in Croatian or English, written in Latin script, and all other supporting documentation proving compliance with technical requirements may be in Croatian or English.

Prices are expressed without value added tax (VAT). The bid price is expressed in kuna (HRK) or euro (EUR) and is written in numbers. In the event that a bidder submits prices expressed in euro (EUR), they shall be converted into kuna (HRK) according to the middle exchange rate of the CNB valid on the day of publication of this Invitation to Tender. The bid price may not be changed during term of the procurement contract.

All Bidders with headquarters in a country other than the Republic of Croatia shall be paid in euro (EUR), and Bidders with headquarters in the Republic of Croatia shall be paid in Croatian currency (HRK).

In case of an unusually low bid price or unusually low unit prices, which casts doubt on the possibility of realization and performance of the Contract, the Client reserves the right to reject such a bid. Prior to the rejection, the Client shall request in writing from the Bidder an explanation with included information on the constituent elements of the bid that are considered material for the performance of the Contract. The Client shall verify the data on the constituent elements of the bid as provided in the bidder's explanation, taking into account the evidence provided.

8. EVALUATION CRITERION

The criterion for evaluating the bids of selected Bidders is the criterion of the lowest price.



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9. PLACE OF DELIVERY

DOK-ING d.o.o., Slavonska avenija 22 G, 10000 Zagreb

10. DEADLINE FOR SUBMISSION OF BIDS

The deadline for submission of bids is 10 calendar days from the date of publication of this Notice at www.strukturnifondovi.hr

11. DELIVERY PERIOD OF THE PROCUREMENT SUBJECT

The delivery period shall commence immediately after the purchase order is issued. The requested delivery period is up to a maximum of 14 weeks from the date on which the purchase order was issued, and the delivery period for the procurement subject shall be determined in the purchase order in accordance with the selected bid. The goods may not be delivered successively.

12. MODIFICATION OR WITHDRAWAL OF SUBMITTED BIDS

The Bidder may change or withdraw their bid before the deadline for submission

If a modification or amendment to the bid is submitted, it must be submitted in the same way as the original proposal, indicating that this is a change / addendum to the proposal.

13. VALIDITY OF BIDS

The validity of bids must be at least 30 days after the deadline for submission.

14. SELECTION OF THE MOST ADVANTAGEOUS BID

The deadline for the evaluation of bids and the decision on a successful bidder is 10 working days after the deadline for submitting the proposal. The bidders shall be informed on the decision within that deadline.

Public procurement: Ivanka Serdarušić