



Ústav fotoniky a elektroniky AV ČR, v.v.i.
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In order to facilitate the orientation in the small-scale tender documentation for suppliers who do not understand Czech the contracting authority (the Buyer) provides an English version of the call for participation in a public tender.

The contracting authority warns all potential participants that this document is for informational purposes only. For the participation in the tendering process it is therefore essential to study the original Czech version of the document.





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In Prague on 16. 6. 2014

Handled by: Mgr. Marcela Zmeškalová
Tel.: 266 773 404
Reg. No.: ÚFE-243/2014-sekr

Matter: The call for participation in a public small-scale tender

This is to open the call for participation in a public small-scale tender named
„Nanomanipulator and its integration in FIB-SEM“

I. Identification data of the contracting authority

Contracting authority:	Ústav fotoniky a elektroniky AV ČR, v. v. i.
Residence:	Chaberská 57, 182 51 Praha
ID:	67985882
UID:	CZ67985882
Data box:	m54nucy
The person authorized to sign the contract:	Prof. Ing. Jiří Homola, CSc., DSc.
Contact person:	RNDr. Jan Lorinčík, CSc.
Tel.:	+420 266 773 428
E-mail:	lorincik@ufe.cz

(Hereinafter referred as **“Buyer”**)

II. Tender description

II.1. Name of this small-scale tender:
„Nanomanipulator and its integration in FIB-SEM “

II.2. The subject of this small-scale tender:
The subject of this public small-scale tender is the delivery of a device – nanomanipulator, which is specified in appendix 1 „The required technical parameters of the nanomanipulator“ and its integration into the chamber of a FIB-SEM device TESCAN LYRA3 GMU.

III. Place of the contract fulfillment

Place of the public contract fulfillment: Ústav fotoniky a elektroniky AV ČR, v. v. i.,
Chaberská 57, 182 51 Praha

IV. Anticipated value of the contract

Anticipated value of the contract: 573.000,- CZK incl. local VAT of 21%

The bid price of the Supplier shall not exceed the anticipated value of this public contract. In case it exceeds that value the bidder shall be disqualified from the tender.

V. Formal requirements for the bid price

The bid price shall be in the Czech currency (CZK) and itemized into: price in CZK without VAT, VAT in %, VAT in CZK, price incl. VAT.

The bid price incl. VAT shall be the highest acceptable price incl. all expenses required for the public small-scale contract fulfillment.

VI. Formal requirements for the preparation of the tender





The tender bids shall be submitted in writing and in a closed envelope with the company name and stamp or with the signature of the statutory authorities or a person authorized to sign the contract on top of the envelope. The envelope shall be labeled " Nanomanipulátor a jeho integrace do FIB-SEM ". The deadline for the delivery of the tender bid is set for 30. 6. 2014, 11:00 a.m..

The identification data of the supplier must be included in the tender bid; specifically: the company name, residence, ID, the person authorized to sign the contract, the contact address for the communication between the Supplier and the Buyer.

The tender offer must be in the Czech language.

VII. **Inspection of the place of the public contract fulfilment**

On request from the Supplier the Buyer enables the inspection of the place of the fulfilment of this public tender, incl. the inspection of the chamber of the FIB-SEM TESCAN LYRA3 GMU, into which the nanomanipulator will be installed. The deadline for the delivery of the request for the inspection of the place of this public tender fulfilment is 26.6. 2014. The latest time for the scheduled inspection of the place is 27.6. 2014.

VIII. **Evaluation criteria**

The tender bids shall be evaluated according to the basic criterion of the economic advantageousness.

The Buyer accepts variants of the tender bid. For the evaluation purpose each variant of the bid is considered an independent bid.

If the obligatory technical parameters from appendix 1 are not fulfilled, the tender bid shall be excluded from the evaluation procedure.

The evaluation procedure:

The bid with the highest number of points shall be the winner of the tender.

Partial evaluation criteria	weight [%]
The bid price incl. VAT 21%	40 %
Evaluated technical parameters	50 %
Warranty time period	10 %

The final rating is equal to the sum of the points assigned according to the partial evaluation criteria. The final rating shall be determined according to the following formula:

$$Final\ rating = 10 \frac{DZ}{NDZ} + 50 \frac{TP}{NTP} + 40 \frac{NNC}{NC}$$

where

DZ is the warranty period,

NDZ is the longest warranty period,

TP is the result of the technical parameter evaluation. The points of the evaluated technical parameters are summed up.

NTP is the highest achieved number of points for technical parameters.

NC is the bid price.

NNC is the lowest bid price.





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The supplier is not authorized to link the bid price to any conditions. Bid price with conditions or a single bid with two or more different prices shall be the reason for the rejection of the tender bid and of the supplier from the tender. The same shall apply to the tender bids submitted in other currencies than specified by the Buyer.

IX. Commercial terms

The following commercial terms shall be required:

- a) The Supplier provides a minimum warranty of 12 months.
- b) The Supplier must be a manufacturer or a business partner of the device manufacturer and must be authorized by the manufacturer of the device for providing the service support
- c) All obligatory technical parameters of the device listed in appendix 1 "The required technical parameters of the nanomanipulator" must be substantiated by the Supplier.

X. Other terms

The Buyer is authorized:

- a) to ask the Supplier to clarify the bid price,
- b) to change or further specify the commercial terms (provided that the basic terms, i.e. price, warranty are not changed),
- c) to cancel this public small-scale tender without specifying the reason and at any time up to a point of placing the order,
- d) to change or supplement the subject of the public tender during the preparation of the order according to the Buyer's need,
- e) to place a purchase order on the base of the evaluation criteria with the winner of the tender

XI. The information about the procedure of the public small-scale tender

This public small-scale tender is not commissioned under Act No. 137/2006 Coll., Public Procurement Act, as amended.

Appendices:

1. The required technical parameters of the nanomanipulator

Yours truly,

Prof. Jiří Homola, Ph.D., DSc.
Director

ÚSTAV FOTONIKY
A ELEKTRONIKY AV ČR, v.v.i.
(1)
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Appendix 1

The required technical parameters of the nanomanipulator

Minimal required technical parameters:

- The Nanomanipulator (NM) must be compatible with a very high vacuum and its presence in the microscope chamber must not worsen pressure 1×10^{-5} Pa, cause any contamination or worsen the imaging parameters of the microscope.
- The NM installed in the chamber must not restrict the sample stage movement or influence in any way the functioning of the detectors and other devices installed in the FIB-SEM and at the same time the tip of the NM must be able to reach all points within 1 mm size space cube centered on the FIB-SEM beam intersection.
- The control of the NM must be integrated into the control software of the microscope with the minimal level of integration being such that it is able to prevent alone or through the control software of the microscope the collision with the chamber, the stage or any other device operating inside the FIB-SEM.
- Range of movement in X,Y,Z must be at least 20x20x20mm.
- The NM must be equipped with the position reading.
- The precision (reproducibility) of the movement must be ± 60 nm or better.
- The NM must allow for the measurement of small electric currents below 20 pA.
- Maximal movement speed must be 5 mm/s or higher.
- The NM must allow for the tip replacement.
- Maximal load in horizontal and vertical position must be 100 g or higher.

Evaluated technical parameters:

- The precision (reproducibility) of the movement -
 - lower or equal to ± 30 nm ... 30 points,
 - higher than ± 30 and lower or equal to ± 50 nm ... 20 points,
 - higher than ± 50 and lower or equal to ± 60 nm ... 1 point
- The lowest electric current (defined as the twice of the electrical noise level) measurable by the tip of the NM after its installation into the FIB-SEM -
 - lower or equal to 1 pA ... 30 points,
 - higher than ± 1 pA and lower or equal to 10 pA ... 20 points,
 - higher than ± 10 pA and lower or equal to 20 pA ... 0 points
- Surface profile measurement with the NM –
 - is included... 20 points,
 - is not included ... 0 points
- In-situ replacement of the tip of the NM (without venting the chamber of the microscope) -
 - is included... 20 points,
 - is not included ... 0 points.

