

**CALL TO SUBMIT AN OFFER IN SMALL-SCALE TENDER PROCEEDINGS****(pursuant to Act No. 134/2016 Coll. on public tenders)****This does not involve proceedings under Act No. 134/2016 Coll. on public tenders in the valid wording (hereinafter the "APT")**

<b>Name of tender:</b>	<b>"PURCHASE OF complete mini chamber system"</b>
<b>Tenderer:</b>	
<b>Company or name of company or name and surname:</b>	<b>Institute of Vertebrate Biology, Academy of Sciences of the Czech Republic, v.v.i.</b>
<b>Address of headquarters/place of business/place of permanent residence:</b>	<b>Květná 170/8, 603 65 Brno, Czech Republic</b>
<b>Company ID No.:</b>	68081766
<b>Persons authorized to act in the name of or on behalf of the bidder:</b>	Assoc. Prof. Marcel Honza, Dr.
<b>Contact person:</b>	Pavla Bučková, head of Administration Office
<b>E-mail:</b>	<b><u><a href="mailto:buckova@ivb.cz">buckova@ivb.cz</a></u></b>

**1. Information on the type and subject of tender and its technical specifications**

<b>Name</b>	<b>Complete mini chamber system for aquatic respirometry</b>  This complete system includes up to eight horizontal mini chambers of customized length, and everything needed for fully automated oxygen consumption rate measurements, device control, data analysis and regulation of water temperature, e.g. computerized intermittent respirometry.  Use this turnkey system with aquatic invertebrates or fish matching our mini chambers.  Basic mini chamber system 4 x horizontal 9 mm  This basic system includes four horizontal mini chambers, pumps, tubing, a holder, a water bath and the oxygen equipment needed to measure resting
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metabolic rate in fish or inverts.

For computerized and fully automated measurements and analysis (e.g. intermittent respirometry) you can add AutoResp™ software and a Bluetooth power strip to upgrade this basic system.

We recommend the complete respirometry system if you are looking for a brand new set up and don't any of this equipment in the lab.

Mini chamber horizontal 9 mm

These tube-shaped glass chambers are designed for measurements of oxygen consumption rates in resting/inactive aquatic organisms (e.g. fish or inverts) by intermittent respirometry.

Use the two ground glass joint stoppers with tubes of different lengths to get a range of volumes/sizes

Tubes and fittings for horizontal mini chambers

This package contains a selection of all the Tygon tubes and plastic fittings needed when setting up four mini chambers for intermittent (static) respirometry using our mini pumps.

Bluetooth power strip (230V)

This bluetooth device is essentially a 4-fold power strip for wireless software control of equipment connected to one of the four independent electrical sockets, i.e., turning pumps, valves, stirrers etc. on and off from a distance.

Long range Bluetooth dongle

This Class 1 Bluetooth 2.1 dongle for USB and external antennae double the wireless range of your (Class 2) PC system.

Respirometry software

Respirometry software is user-friendly Windows software to be used with our automated intermittent respirometry systems allowing users to jump-start oxygen consumption measurements in aquatic organisms. Our computerized multi channel systems with fiber optic oxygen sensing technology offer unbeaten efficiency, accuracy, and time resolution of aquatic respiration data.

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Adapter rings for mini chambers 9 mm

These adapter rings (set of four rings) can be used to fix mini chamber (horizontal) and/or mini chamber (vertical) in our water bath for mini chambers.

Oxygen meter for mini sensors

Four-channel oxygen instrument for use with fiber optic mini sensors (optodes). It has a build-in Bluetooth transmitter for wireless PC communication, and includes a high accuracy temperature sensor and software for compensation of oxygen data to changes in temperature, salinity or barometric pressure in real-time.

The wireless Bluetooth 2.0 communication allows you to keep that vulnerable PC/Notebook at a distance avoiding hazards like water or blood.

Also problems associated with USB and serial communication are avoided, and the rugged compact design offers excellent protection and take up minimum bench space.

The instrument comes with easy-to-use software for Windows, and a 4-wire Pt1000 temperature sensor (Class B 1/3 DIN) with  $\pm 0.15^{\circ}\text{C}$  accuracy for 5-digits real-time compensation of oxygen data.

A PC computer with Bluetooth 2.0 or higher (build-in or dongle) is required for operation.

Fiber cable (bare tip) for sensor spot

A polymer optical fiber is needed as a light guide between the fiber optic instrument and the sensor spots

O<sub>2</sub> sensor spots, 5 mm non-autoclavable, 10 pcs.

Sensor spots are thin planar oxygen mini sensors immobilized onto either polyester or glass supports. The latter is autoclavable. The sensor spots are glued inside chambers, flasks or disposables with translucent and non-fluorescent walls (e.g. glass, polyester, acrylic etc.). Then oxygen measurements can be done in a non-invasive and non-destructive way from outside and through the wall of your vessel.

With silicone glue (OX11100) you can glue the sensor spots inside your own

	<p>chambers, flasks, disposables, or we can do it for you.</p> <p>To use the sensor spots a fiber optic instrument and an external fiber cable (light guide) is required. The tip of the fiber cable delivers (blue) light to the backside of the sensor spot through the wall (and transparent glue). The front side of the sensor spot is in contact with the media (liquid or gas), e.g. the light is not passing through the media.</p>
	<b>The set must be capable of full functioning as its stands (excluding PC and gas source for calibrations).</b>
<b>Estimated value of tender (in CZK without VAT):</b>	<b>EUR 31.500,00</b>
<b>Place of fulfillment:</b>	IVB, External research facility Studenec, Studenec 122, 675 02 Koněšín, Czech Republic, Dr. Lumir Gvozdk

## 2. Period for submitting bid

### 2.1 The period for submitting bids starts to run on:

**Date:** The period for submitting bids starts to run on the day following the day of sending the text of the bid.

### 2.2 End of period for submitting bids:

**Date:** 25.5.2018      **Time:** 12:00 o'clock

## 3. Place for submitting bids and other information for submitting bids

**Bids must be delivered to the address of the Institute of Vertebrate Biology, Academy of Sciences of the Czech Republic, v.v.i., to the secretariat, Květná 170/8, 603 65 Brno in the period indicated in Art. 2 of this call for submissions or by mail**

**In case of delivery in person the contact person for receiving bids is: Pavla Bučková**

**Tel.: 00420 543 422 512**

**E-mail: buckova@ivb.cz**

## 4. Requirements and conditions for processing bids:

4.1 The bid for the small-scale tender must be elaborated in the Czech or English languages.

4.2 The bid price must be elaborated as a total price for the fulfillment of the subject of the small-scale tender in accordance with the specifications presented in Art. 1 of this call for submission without VAT and with VAT.

## **5. Information about evaluation criteria:**

The basic evaluation criteria is the economic feasibility of the bid - the lowest bid price (100%)

## **6. Application period (period for which candidates are obliged by their bids)**

Length of application period: 60 days

The application period starts to run when the period for submitting bids ends and ends on the day when a notification from the tenderer of selection of the most suitable bid is delivered.

## **7. Final provisions**

7.1 The tenderer shall reject bids that are delivered (submitted) after the period for submitting bids.

7.2 The tenderer shall exclude candidates that do not meet that conditions of the tenderer stipulated in this call for submissions.

7.3 The tenderer reserves the right to cancel the public tender.

7.4 The tenderer reserves the right to confirm and check information provided by candidates in their bids.

7.5 None of the candidates has the right to compensation of damages and/or costs that arise to it on connection with participation in the small-scale public tender process.

7.6 The selected candidate shall be invited to enter into a contract.

In Brno on 10 th May 2018

Assoc. prof. Marcel Honza, Dr.

director