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**D-Frankfurt-on-Main: ECB - provision of a visual perception simulator  
'human sensory model' by eye-tracking experiments (18928/BN/CDE/2011)  
2012/S 182-297674**

**Contract notice**

**Services**

Directive 2004/18/EC

**Section I: Contracting authority**

**I.1) Name, addresses and contact point(s)**

European Central Bank  
Kaiserstraße 29

Contact point(s): For downloading documentation for this procurement procedure, please see Section VI.3

For the attention of: Josef Pinhas

60311 Frankfurt-on-Main

GERMANY

Telephone: +49 6913440

E-mail: [procurement@ecb.europa.eu](mailto:procurement@ecb.europa.eu)

Fax: +49 6913447110

**Internet address(es):**

General address of the contracting authority: <http://www.ecb.europa.eu>

**Further information can be obtained from:** The above mentioned contact point(s)

**Specifications and additional documents (including documents for competitive dialogue and a dynamic purchasing system) can be obtained from:** The above mentioned contact point(s)

**Tenders or requests to participate must be sent to:** The above mentioned contact point(s)

**I.2) Type of the contracting authority**

European institution/agency or international organisation

**I.3) Main activity**

Economic and financial affairs

**I.4) Contract award on behalf of other contracting authorities**

The contracting authority is purchasing on behalf of other contracting authorities: no

**Section II: Object of the contract**

**II.1) Description**

**II.1.1) Title attributed to the contract by the contracting authority:**

Provision of a visual perception simulator 'human sensory model' by eye-tracking experiments (18928/BN/CDE/2011).

**II.1.2) Type of contract and location of works, place of delivery or of performance**

Services

Service category No 8: Research and development services

NUTS code DE712

**II.1.3) Information about a public contract, a framework agreement or a dynamic purchasing system (DPS)**

The notice involves a public contract

II.1.4) **Information on framework agreement**

II.1.5) **Short description of the contract or purchase(s)**

The successful tenderer shall complete the project in 5 project phases for each lot, from which the first 2 phases are mandatory (phase 1 and phase 2) and the 3 additional phases are optional.

Phase 1 requires installation and mastery of the visual perception simulator HSM, prepare stimuli both for the visual perception simulator HSM and for the eye-tracking (ET) experiments, run the ET experiments with 100 subjects, correlate the results of the visual perception simulator HSM with those of ET experiments, propose a metric and present a report to the ECB.

Phase 2 is a consolidation phase to a similar extent as phase 1, i.e. involving also ET experiments with 100 subjects according to the requirements set forth in the tender specifications that will be attached to the invitation to tender (ITT).

Only in the case of successful completion of phase 1 and phase 2, the ECB may request the contractor to further develop and validate the visual perception simulator HSM according to the requirements set forth in the tender specifications, in order to include specific segments of the population (phase 3) and tactility information (phase 4). The contractor may be also required by the ECB to consolidate the results taking into account the outcome of the phases 1–4 (phase 5).

II.1.6) **Common procurement vocabulary (CPV)**

73200000, 73110000, 79312000, 79314000, 79310000, 22430000

II.1.7) **Information about Government Procurement Agreement (GPA)**

The contract is covered by the Government Procurement Agreement (GPA): yes

II.1.8) **Lots**

This contract is divided into lots: yes

Tenders may be submitted for one or more lots

II.1.9) **Information about variants**

Variants will be accepted: no

II.2) **Quantity or scope of the contract**

II.2.1) **Total quantity or scope:**

The European Central Bank (ECB) intends to use a negotiated procedure, for the procurement of the provision of a simulator 'human sensory model' by eye tracking experiments.

II.2.2) **Information about options**

Options: yes

Description of these options: In case of successful completion of phase 1 and phase 2 of the project (total estimated duration: 24 months), the ECB may optionally request the contractor to further develop and validate the visual perception simulator HSM within 3 subsequent project phases (phase 3–5, with a total estimated duration of 24 months). An optional project phase shall start only after the ECB has issued the successful tenderer(s) with an explicit written order within 6 months after the issuance of the acceptance certificate for the previous project phase.

Provisional timetable for recourse to these options:

in months: 24 (from the award of the contract)

II.2.3) **Information about renewals**

This contract is subject to renewal: no

II.3) **Duration of the contract or time limit for completion**

Starting 1.8.2013. Completion 31.7.2015

### **Information about lots**

Lot No: 1

Lot title: Experiments with the euro currency

1) **Short description**

The main elements for lot 1 include:

- a) design and validate a scientific metric to measure and thus enable predictions on the human eye-catching potential on specific areas of banknotes;
- b) prepare and conduct eye-tracking experiments on different groups of subjects to verify the developed scientific metric;
- c) correlate the results of the eye-tracking experiment with the predictions of the developed scientific metric;
- d) fine-tune the scientific metric based on the correlation of results;
- e) prepare corresponding reports and present the results to the ECB at the ECB premises in Frankfurt-on-Main.

The successful tenderer shall complete the project in 5 phases, from which the first 2 phases are mandatory (phase 1 and phase 2) and the 3 additional phases are optional.

These activities are conducted using the euro currency.

2) **Common procurement vocabulary (CPV)**

73200000, 73110000, 79312000, 79314000, 79310000, 22430000

3) **Quantity or scope**

4) **Indication about different date for duration of contract or starting/completion**

5) **Additional information about lots**

Tenderers may submit their offer for 1 or both lots.

As the ECB intends to cross-check the development and validation of the scientific metric relating to the eye-tracking experiments on the different group of subjects:

- (a) with the euro; and
  - (b) with a non-euro currency;
- tenderers — if applying for both lots — shall deploy:
- (i) different qualified teams; and, if applicable,
  - (ii) different subcontractors;
- in order to cover both parts of the project in an independent manner.

Lot No: 2

Lot title: Experiments with a non-euro currency

1) **Short description**

The main elements for lot 2 include:

- a) design and validate a scientific metric to measure and thus enable predictions on the human eye-catching potential on specific areas of banknotes;
- b) prepare and conduct eye-tracking experiments on different groups of subjects to verify the developed scientific metric;
- c) correlate the results of the eye-tracking experiment with the predictions of the developed scientific metric;
- d) fine-tune the scientific metric based on the correlation of results;
- e) prepare corresponding reports and present the results to the ECB at the ECB premises in Frankfurt-on-Main.

The successful tenderer shall complete the project in 5 phases, from which the first 2 phases are mandatory (phase 1 and phase 2) and the 3 additional phases are optional.

These activities are conducted using a non-euro currency.

2) **Common procurement vocabulary (CPV)**

73200000, 73110000, 79312000, 79314000, 79310000, 22430000

3) **Quantity or scope**

4) **Indication about different date for duration of contract or starting/completion**

5) **Additional information about lots**

Tenderers may submit their offer for 1 or both lots.

As the ECB intends to cross-check the development and validation of the scientific metric relating to the eye-tracking experiments on the different group of subjects:

(a) with the euro; and

(b) with a non-euro currency;

tenderers — if applying for both lots — shall deploy:

(i) different qualified teams; and, if applicable,

(ii) different subcontractors;

in order to cover both parts of the project in an independent manner.

**Section III: Legal, economic, financial and technical information**

III.1) **Conditions relating to the contract**

III.1.1) **Deposits and guarantees required:**

No deposit is required, but where applicable, the successful tenderer (or in the case of a successful consortium bid, each member of the consortium) may be required to provide a parent company guarantee.

III.1.2) **Main financing conditions and payment arrangements and/or reference to the relevant provisions governing them:**

The method of payment will be in accordance with the terms and conditions of the contract.

III.1.3) **Legal form to be taken by the group of economic operators to whom the contract is to be awarded:**

The establishment of a temporary grouping of companies is allowed under the conditions laid down in the call for applications/invitation to tender.

III.1.4) **Other particular conditions**

The performance of the contract is subject to particular conditions: no

III.2) **Conditions for participation**

III.2.1) **Personal situation of economic operators, including requirements relating to enrolment on professional or trade registers**

Information and formalities necessary for evaluating if the requirements are met: Please see the details in the tender documentation to be requested from the contact point indicated in Sections I.1 and VI.3.

III.2.2) **Economic and financial ability**

Information and formalities necessary for evaluating if the requirements are met: Please see the details in the tender documentation to be requested from the contact point indicated in Sections I.1 and VI.3.

Minimum level(s) of standards possibly required: No minimum level of standards required.

III.2.3) **Technical capacity**

Information and formalities necessary for evaluating if the requirements are met:

Please see the details in the tender documentation to be requested from the contact point indicated in Sections I.1 and VI.3.

Minimum level(s) of standards possibly required:

- (a) at least 3 reference projects in the area of eye-tracking experiments, which involved at least 25 subjects;
- (b) professional capability to recruit specified panels of subjects;
- (c) at least 1 person who has proven knowledge of Linux, C++ and Java;
- (d) at least 1 person who has proven knowledge of English as counterpart for the ECB for all logistical and administrative issues.

III.2.4) **Information about reserved contracts**

III.3) **Conditions specific to services contracts**

III.3.1) **Information about a particular profession**

Execution of the service is reserved to a particular profession: no

III.3.2) **Staff responsible for the execution of the service**

Legal persons should indicate the names and professional qualifications of the staff responsible for the execution of the service: no

**Section IV: Procedure**

IV.1) **Type of procedure**

IV.1.1) **Type of procedure**

Negotiated

Some candidates have already been selected (if appropriate under certain types of negotiated procedures)  
no

IV.1.2) **Limitations on the number of operators who will be invited to tender or to participate**

Envisaged number of operators: 5

Objective criteria for choosing the limited number of candidates: (a) the candidate's experience in the field of visual perception, demonstrated by publications in the field of visual perception (weighting of this criterion: 70 %); and

(b) the candidate's experience in programming in simulators, i.e. projects that try to mimic human behaviour, demonstrated by reference projects (weighting of this criterion: 30 %).

IV.1.3) **Reduction of the number of operators during the negotiation or dialogue**

Recourse to staged procedure to gradually reduce the number of solutions to be discussed or tenders to be negotiated no

IV.2) **Award criteria**

IV.2.1) **Award criteria**

The most economically advantageous tender in terms of the criteria stated in the specifications, in the invitation to tender or to negotiate or in the descriptive document

IV.2.2) **Information about electronic auction**

An electronic auction will be used: no

IV.3) **Administrative information**

IV.3.1) **File reference number attributed by the contracting authority:**

18928/BN/CDE/2011.

IV.3.2) **Previous publication(s) concerning the same contract**

no

IV.3.3) **Conditions for obtaining specifications and additional documents or descriptive document**

Payable documents: no

- IV.3.4) **Time limit for receipt of tenders or requests to participate**  
18.10.2012 - 17:00
- IV.3.5) **Date of dispatch of invitations to tender or to participate to selected candidates**
- IV.3.6) **Language(s) in which tenders or requests to participate may be drawn up**  
English.
- IV.3.7) **Minimum time frame during which the tenderer must maintain the tender**
- IV.3.8) **Conditions for opening tenders**

**Section VI: Complementary information**

VI.1) **Information about recurrence**

This is a recurrent procurement: no

VI.2) **Information about European Union funds**

The contract is related to a project and/or programme financed by European Union funds: no

VI.3) **Additional information**

The documentation for this procurement can be downloaded from an Internet platform. If you are interested to participate in the procurement procedure please register via the Internet platform using the following Internet address, user name and password:

Internet address: <https://www.ecb.europa.eu/secure/procurement/>

User name: 18928/BN/CDE/2011

Password: 4C5479

After having registered an e-mail will be sent to you with a new user name and password. The Internet address will remain the same. Please use the new user name and password to download the application documentation.

Should you experience any problems in accessing the internet platform for registration and/or downloading the application documentation please do not hesitate to contact us under the following e-mail address:

[procurement@ecb.europa.eu](mailto:procurement@ecb.europa.eu) quoting the procurement number and problem experienced.

The tender procedure shall be open on equal terms to all natural or legal persons resident or located in the European Union and to all natural and legal persons resident or located in a country which has ratified the World Trade Organisation Agreement on Government Procurement or has concluded with the European Union a bilateral agreement on procurement under the conditions laid down in the said agreements.

The ECB shall exclude tenderers that are in one of the situations described in Article 24(4) of Decision ECB/2007/5 (e.g. conviction for fraud or corruption) or put on a blacklist in accordance with Article 24(7) of Decision ECB/2007/5.

The ECB may exclude tenderers that are in one of the situations described in Article 24(5) of Decision ECB/2007/5 (e.g. insolvency; grave professional misconduct; misrepresentation). Further information about ECB procurement rules and procedures may be obtained at <http://www.ecb.europa.eu/ecb/jobsproc/tenders/html/index.en.html>

VI.4) **Procedures for appeal**

VI.4.1) **Body responsible for appeal procedures**

Procurement Review Body of the European Central Bank, c/o Legal Advice Team

Kaiserstraße 29

60311 Frankfurt-on-Main

GERMANY

Telephone: +49 691344-0

Internet address: <http://www.ecb.europa.eu>

Fax: +49 691344-6558

**Body responsible for mediation procedures**

The European Ombudsman  
1 avenue du Président Robert Schuman, CS 30403  
67001 Strasbourg Cedex  
FRANCE

VI.4.2) **Lodging of appeals**

Precise information on deadline(s) for lodging appeals: 15 days from the receipt of the information specified in Article 28(3) of the ECB procurement rules (see Section VI.3) or, if no information is requested, 15 days from the receipt of the notification to unsuccessful tenderers.

Further requirements are outlined in Article 33 of the ECB procurement rules (see Section VI.3).

The complaint to the European Ombudsman does not affect the submission deadline nor does it create a new deadline by which complaints can be submitted.

VI.4.3) **Service from which information about the lodging of appeals may be obtained**

see above

VI.5) **Date of dispatch of this notice:**

11.9.2012