Extensive Literature Search on the bioavailability of selected trace elements in animal nutrition - Incompatibilities and interactions

Call for proposals CFP/EFSA/FEED/2012/01 and guide for applicants

Restricted to the list adopted by EFSA Management Board according to article 36 of European Parliament and Council Regulation (EC) No 178/2002
TABLE OF CONTENT:

1. INFORMATION ABOUT THE CALL FOR PROPOSALS ................................................................. 3
   1.1. LEGAL FRAMEWORK AND APPLICABLE TEXTS ................................................................. 3
   1.2. CONTEXT AND SCIENTIFIC BACKGROUND OF THE CALL ............................................... 3
       1.2.1. INTRODUCTION ........................................................................................................... 3
       1.2.2. TERMINOLOGY ............................................................................................................ 4
       1.2.3. PROCEDURE FOR THE EXTENSIVE LITERATURE SEARCH ......................................... 4
   1.3. OBJECTIVES OF THE CALL FOR PROPOSALS ................................................................. 5
   1.4. STRUCTURE AND ESSENTIAL REQUIREMENTS OF THE PROPOSAL .............................. 5
   1.5. MEETING AND REPORTING REQUIREMENTS ..................................................................... 5
   1.6. AMOUNT AVAILABLE FOR FINANCIAL SUPPORT BY EFSA .......................................... 7

2. PROCEDURAL RULES APPLICABLE TO THE CALL .................................................................. 7
   2.1. APPLICATION FORM ............................................................................................................. 7
   2.2. LANGUAGE OF THE PROPOSAL AND THE SUPPORTING DOCUMENTS ............................ 7
   2.3. FINAL DEADLINE AND ADDRESS FOR SUBMISSION OF PROPOSALS .......................... 7
   2.4. HOW TO SEND THE PROPOSALS ...................................................................................... 8
   2.5. FURTHER INFORMATION .................................................................................................... 8

3. EVALUATION AND SELECTION OF PROPOSAL .................................................................... 8
   3.1. VERIFICATION OF SUBMISSION REQUIREMENTS ............................................................. 9
   3.2. ELIGIBILITY CRITERIA AND EXCLUSION CRITERIA ......................................................... 9
       3.2.1. ELIGIBILITY OF THE APPLICANT AND ITS POSSIBLE PARTNERS .......................... 9
       3.2.2. EXCLUSION CRITERIA ............................................................................................... 11
   3.3. SELECTION CRITERIA ........................................................................................................... 11
       3.3.1. FINANCIAL CAPACITY OF APPLICANTS AND POSSIBLE PARTNERS .................... 11
       3.3.2. OPERATIONAL CAPACITY OF APPLICANTS AND POSSIBLE PARTNERS ............ 12
   3.4. AWARD CRITERIA ............................................................................................................... 12

4. GRANT AGREEMENT AND PAYMENTS .................................................................................. 13
   4.1. CALCULATING THE EFSA GRANT ....................................................................................... 13
       4.1.1. ON THE BASIS OF THE ESTIMATED BUDGET - BEFORE IMPLEMENTATION OF THE
              PROJECT ......................................................................................................................... 13
           4.1.1.1. Estimated Budget and its Cost Side ......................................................................... 13
           4.1.1.2. Income Side of Estimated Budget ......................................................................... 14
           4.1.1.3. Financial Analysis of Estimated Budget ................................................................. 14
           4.1.1.4. Approved Budget ................................................................................................ 14
       4.1.2. ON THE BASIS OF THE FINAL ACCOUNTS – AFTER IMPLEMENTATION OF THE
              PROJECT ......................................................................................................................... 15
   4.2. SUBMISSION OF REPORTS AND PAYMENT ARRANGEMENTS ......................................... 15
   4.3. ACCOUNTING RECORDS OF THE PROJECT AND AUDIT ................................................. 15

5. PROTECTION OF PERSONAL DATA AND PUBLIC ACCESS TO DOCUMENTS ..................... 16
   5.1. PROTECTION OF PERSONAL DATA IN RELATION TO GRANT PROCEDURES ................ 16
   5.2. PUBLIC ACCESS TO DOCUMENTS ...................................................................................... 16

LIST OF ANNEXES .................................................................................................................... 17
1. INFORMATION ABOUT THE CALL FOR PROPOSALS

1.1. LEGAL FRAMEWORK AND APPLICABLE TEXTS

Article 36 of the European Parliament and Council Regulation (EC) No 178/2002 laying down the general principles and requirements of food law, establishing the European Food Safety Authority and laying down procedures in matters of food safety foresees the possibility to financially support a networking of organisations operating in the fields within the EFSA’s mission.

On the 20th December 2006 the Management Board, acting on a proposal from the Executive Director, drew up a list of competent organisations designated by the Member States which may assist EFSA, either individually or in networks, with its mission. Pursuant to Article 2, paragraph 4 of the Commission Regulation (EC) 2230/2004, the list is regularly updated.

Article 5 of the Commission Regulation (EC) No 2230/2004 laying down detailed rules for the implementation of European Parliament and Council Regulation (EC) No 178/2002 with regard to the network of organisations operating in the fields within the EFSA’s mission specifies that the financial support to the networking organisations shall take the form of grants awarded in accordance with the EFSA’s financial regulation and implementing rules.


1.2. CONTEXT AND SCIENTIFIC BACKGROUND OF THE CALL

1.2.1. INTRODUCTION

Regulation (EC) No 1831/2003 establishes the rules for the authorisation of feed additives in the European Union (EU). Applicants wishing to place a feed additive in the EU market shall send an application to the European Commission (EC) and a technical dossier to EFSA. It is the task of EFSA to provide the EC with a scientific opinion in which the assessment of the safety and the efficacy of the feed additive is reported. This task is entrusted to the Scientific Panel on Additives and Products or Substances used in Animal Feed (FEEDAP Panel). The FEED Unit provides scientific and technical/administrative support to the Panel.

The aforementioned Regulation provides in its Article 6 the definition of the five categories of additives and, in its Annex I the list of functional groups for each of the categories. The category “nutritional additives” and the functional group “compounds of trace elements” are foreseen in the Regulation. Within the FEEDAP Panel’s remit, the assessment of feed additives –their safety for the target animal(s), consumer, user and the environment and their efficacy– is one of the most demanding areas of work. In particular, in relation with the assessment of trace elements, one of the key aspects is, in connection with the efficacy, their bioavailability. The bioavailability of a given trace element may vary depending on the form that the element is presented, e.g. organic forms of a trace elements are considered, in general, more bioavailable than the inorganic ones. A consequence of a higher bioavailability could be an increasing rate in tissue/products deposition and, per ende, increased residues in animal tissues and products could be reached, which, in case of trace elements, might give raise to consumer safety concerns. As example, in an EFSA’s opinion, a limitation of selenium supplementation from an organic form of selenium was recommended, in order to ensure a safe selenium supply to consumers.1

By the other hand, any physico-chemical incompatibilities or interactions of a given trace element with feed materials, carriers and other approved additives might either increase or decrease the level of the element in feed and/or the bioavailability of a specific (form of) trace element. Consequently, it is of critical importance to set the current knowledge on incompatibilities and interactions of relevant trace elements used in animal nutrition.

---

The aim of this assignment is the preparation of a report collecting, collating, analysing and synthesising the scientific data and information on the bioavailability of trace element additives, and their incompatibilities and interactions, in particular when combined with other feed additives or components of the animal diet. The project should consider the relevant compounds of each trace element of current or potential use in animal nutrition. Only the currently authorised trace elements in the European Union (cobalt, copper, iodine, iron, manganese, molybdenum, selenium and zinc) will be subject of the review under the present Call for proposals.

1.2.2. TERMINOLOGY
For the purpose of this Call for proposals, the following terminology description applies:

- **Bioavailable**: fraction of an element that is absorbed and reaches the systemic circulation in order to be distributed to organs and tissues, and used for physiological functions.

- **Incompatibility**: phenomena likely related to the chemical/physical nature of the additive/nutrient, which occurrence is mostly *in vitro*, i.e. in feed, mainly by positive or negatively influencing on the status of other components of the diet (including feed additives). One example is the negative effect (oxidising) of some trace elements (Cu) on vitamin stability (Shurson et al., 2011). Other incompatibilities may result from the influence (e.g. on vitamin stability) of certain trace element compounds which may again differ between the compounds of the same trace element (e.g. zinc sulphate or tetrabasic zinc chloride with Vitamin C). Incompatibilities among components of the diet may also be affected by factors such as temperature, pH, humidity, feed processing, feed matrix (solid, liquid).

- **Interaction**: synergistic/antagonistic phenomena, which occurrence is mostly *in vivo*, and that would modify the safety and/or efficacy of the specific feed additive in the target animal. The sites of interactions are multiple in the animal (Windsch, 2002³): in the digesta matrix (luminal and mucosal digestion), at binding, uptake and transfer across mucosa (transcellular or paracellular pathways or both), in portal and systemic circulation, or at the level of systemic deposition and metabolic and functional use. Examples: iron, copper and zinc (O’Dell, 1989⁴; Richards et al., 2010⁵); iodine and glucosinolates (Schöne et al., 1990⁶); zinc and phytates (Zhou et al., 1992⁷; Yu et al., 2010⁸); copper, sulphates and molybdenum in ruminants.

1.2.3. PROCEDURE FOR THE EXTENSIVE LITERATURE SEARCH
An Extensive Literature Search (ELS) is a literature search structured in a way to identify as many relevant studies as possible. The fundamental aspects of an ELS are the tailored search strategy/ies (i.e. combination of search terms and Boolean operators) and the extensive list of information sources used (i.e. bibliographic databases and other sources such as e.g. Journal tables of content etc). The process of ELS is clearly reported to allow transparency and reproducibility. The ELS is a fundamental step of the Systematic Review (SR) process.⁹ The output of ELS is an extensive collection of evidence (to be screened for relevance). An ELS followed by a study selection process may be performed also when a full SR is not done, to produce a set of relevant evidence.

The following steps should be followed and duly documented under the present Call for proposals:

- **Development of an ELS protocol, which will be subject to EFSA’s approval**
- **Definition of Search terms and Boolean operators**
- **Databases to be consulted**
- **Criteria to select the papers**

1.3. OBJECTIVES OF THE CALL FOR PROPOSALS

EFSA intends to sign a Grant agreement resulting from this Call for proposals for the preparation of a report collecting, collating, analysing and synthesising the scientific data and information on the bioavailability of trace element additives and their incompatibilities and interactions.

The specific objectives of the grant agreement resulting from the present Call for proposals procedure are the following:

i) to obtain up-to-date information on qualitative and quantitative information on aspects affecting bioavailability of selected trace elements, and where appropriate of relevant compounds, such as (a) the speciation of the trace element before/during/after absorption in the gastro-intestinal tract, (b) description on the transport in the blood, homeostatic mechanism, faecal and urinary excretion and (c) the concentration of the element in target organs/tissues and products: Liver, kidney, milk, muscle, skin/fat, eggs,

ii) to deliver a proposal for each trace element, or if relevant compound of trace element, on target organs/tissues/fluids/physiological parameters best indicating bioavailability,

iii) to prepare a comprehensive inventory of factors affecting bioavailability,

iv) to obtain up-to-date information on incompatibilities and interactions, in particular when combined with other additives or components of the animal diet, that would modify the content of the element in feed, its bioavailability and/or safety; the study should consider the effect of particle size (including nanoparticles) and of structure (e.g. surface area).

The project should consider the compounds of trace elements in inorganic forms (e.g. oxides, sulphates, chlorides, carbonates), salts with organic acids (e.g. acetate, lactate, fumarate, heptonate) and organic forms (e.g. chelates with amino acids, glycine, methionine, hydroxy-methyl-butanoic acid (HMTBa), polysaccharides) and other forms in which the trace element is incorporated in proteins or amino acids.

The project should consider the following target animals and categories: poultry, porcine, ruminants (including small ruminants), equine, rabbits, fish (salmonids), dogs and cats.10

1.4. STRUCTURE AND ESSENTIAL REQUIREMENTS OF THE PROPOSAL

The proposal should describe the methodology that the candidate intends to apply to meet the objectives and the timing of the project, taking into account all aspects described in the technical specifications.

In particular, the candidate should provide in his proposal with a draft basic protocol of the ELS including the strategy of the search, defining the search terms and boolean operators, the databases to be consulted, the criteria to select the papers and to extract the data, and to assess the quality of the data.

1.5. MEETING AND REPORTING REQUIREMENTS

Below mentioned meetings with EFSA are foreseen:

1. Kick off meeting: This should be held within the first six weeks after the entry into force of the Grant agreement. The main purpose is the presentation of a draft protocol and the methodology proposed by the applicant to develop the project.

The presence at kick-off meeting at EFSA, of a beneficiary’s staff member responsible for administrative/finance issues of the project is advised. This is because the understanding by beneficiary of the grant principles and related financial reporting requirements (declaration and documentation of incurred costs) will significantly ease and speed up the financial management of the grant agreement, both for EFSA and the beneficiary.

10 The point (c) under (i) is not applicable in the case of dogs and cats
2. **Interim meeting N.1**: This should be held at 4 months after the entry into force of the Grant Agreement. The purpose is to present in a concise way the results obtained so far, the difficulties and/or problems encountered, and introduce the future structure of the written final report.

3. **Interim meeting N.2**: This should be held after the submission of the Interim report N.2 and no later than 8 months after the entry into force of the Grant agreement. The purpose is to present the progress of the project; in particular, a pilot report of at least one specific trace element shall be introduced. This meeting could be held as Audio-Web conference.

4. **Final meeting**: This should be held after the submission of the Draft final report and no later than 11 months after the entry into force of the Grant agreement. The purpose is discussing all the pending items and agreeing on the final report.

Below mentioned reports must be drafted in the English language and may be subject to publication at EFSA’s discretion.

1. **Interim report N.1**: After 2 months from the start date of the project, a written interim report must be submitted to EFSA. The written interim report must describe the progress of the project and the results already achieved. In particular it shall contain the protocol intended to follow for the ELS. The interim report must also be regarded as an opportunity to draw attention to any technical or financial difficulties encountered in implementing the project.

2. **Interim report N.2**: After 6 months from the start date of the project, a written interim report must be submitted to EFSA. The written interim report must describe the progress of the project and the results already achieved. In particular it shall contain a pilot report of at least one specific trace element.

3. **The draft final report**: After 10 months from the start date of the project, a draft final report must be submitted to EFSA. The draft final report shall be in the same format as the final report and should be submitted to EFSA by e-mail (Word or Excel files, whatever applicable) and in 2 printed copies. This report will be reviewed by EFSA and comments may be submitted to the applicant within 20 days of its reception.

4. **The final report**: After 12 months from the start date of the project, a final report must be submitted to EFSA. The document shall be submitted both in print (2 copies) and in electronic format (Word or Excel documents, whatever applicable, and as PDF-files).

The final report should include a general introduction, and shall contain for each of the trace elements considered:
- a cover page,
- an executive summary which must be a stand-alone document and, as a general rule, it shall be limited to a maximum of 2 pages
- a monograph, following a template proposed by the applicant, and
- annex(es) containing the details of the studies in a defined harmonised format, so that, if necessary, they could be used for a later meta-analysis.

All published and unpublished data used to draft the reports should be clearly referenced in the documents. The list of the references cited in the reports should be included in an EndNote library file (compatible with EndNote X1). The origin (i.e. retrieval from either original/primary or from secondary literature sources) of the information and/or data used in the Final Report should be clearly stated. Electronic (CD-Rom) copies of all the references should be provided.

Please note that all reporting, minutes, outcome of the discussions could be submitted at EFSA’s discretion to EFSA’s Panel and WG members.

<table>
<thead>
<tr>
<th>Month 1</th>
<th>Month 2</th>
<th>Month 3</th>
<th>Month 4</th>
<th>Month 5</th>
<th>Month 6</th>
<th>Month 7</th>
<th>Month 8</th>
<th>Month 9</th>
<th>Month 10</th>
<th>Month 11</th>
<th>Month 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kick-off meeting</td>
<td>Interim Report 1</td>
<td>Interim meeting N.1</td>
<td>Interim Report 2</td>
<td>Interim meeting N.2</td>
<td>DRAFT Final report</td>
<td>Final meeting</td>
<td>FINAL report</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1.6. AMOUNT AVAILABLE FOR FINANCIAL SUPPORT BY EFSA

The EFSA grant will equal up to 90% of the total eligible project costs (the applicant can ask for a lower EFSA grant percentage) provided that EFSA grant doesn’t exceed 130,000 € which is the maximum which might be received from EFSA for this project. EFSA grant will not be awarded for more than the amount requested.

The total amount of estimated eligible costs, which serves as a basis for calculation of the EFSA grant, will be verified by EFSA who might exclude some cost items as ineligible according to the Rules on eligibility of costs (see annex 1 of this Call) if these rules were not properly applied by the applicant when establishing the Estimated budget.

The project costs not covered by the EFSA grant must exclusively be financed from the applicant organisation’s or partner organisations’ resources. In addition to these resources, only contributions from other public sector bodies are allowed. Contributions from private sector are not allowed.

The EFSA grant may not have the purpose or effect of producing a profit for the applicant or partner organisation. Profit is defined as a surplus of project income over project costs. At the end of the project the amount of the EFSA grant will be reduced by the amount of any surplus.

2. PROCEDURAL RULES APPLICABLE TO THE CALL

2.1. APPLICATION FORM

The proposal must be submitted using the EFSA Standard Application Form (hereinafter referred to as “Application form”) annexed to the present Call. It may be downloaded from the EFSA website http://www.efsa.europa.eu. Applicant organization (hereinafter referred to as “applicant”) must complete and submit the Application form together with all indicated annexes.

The applicant should keep strictly to the format of the Application form and fill in the paragraphs and the pages in order. A duly authorised representative of the applicant must sign the Application form. The Application form must be completed carefully and clearly so that it can be properly assessed. The applicant should be precise and provide enough detail to ensure the Application form is clear and complete. Any major inconsistency with the submission requirements (see point 3.1) may lead to the immediate rejection of the proposal.

Please note that, in submitting a proposal, the applicant accepts the procedures and conditions as described in this Call and in the documents referred to in it.

2.2. LANGUAGE OF THE PROPOSAL AND THE SUPPORTING DOCUMENTS

Proposals may be submitted in any official language of the European Union. Please note that EFSA working language is English and accordingly the submission of proposals in English will be appreciated and strongly recommended as this would significantly facilitate and speed up the evaluation process.

Please note that a number of supporting documents is required in support of the proposal. These supporting documents are an integral part of the proposal. For more information on the relevant supporting documents to be submitted with the proposal, please refer to part 3 of this Call. Where these supporting documents are in a language other than English, in order to facilitate and speed up the evaluation, it would be appreciated if a reliable translation of the relevant parts of the documents into English is provided with the proposal.

The EFSA may ask for further clarification in the course of the evaluation.

2.3. FINAL DEADLINE AND ADDRESS FOR SUBMISSION OF PROPOSALS

The final deadline for submission of proposals is the 31/05/2012.

You can submit your proposal:

- either by registered mail or by courier service to the below address (the post office stamp or the date of the deposit slip from the courier service will be considered as proof of the date of submission). In this case, you are requested to send a message to EFSA’s dedicated e-mail
address (REPRO.P&M@efsa.europa.eu) shortly stating that you have sent a proposal. Any proposal posted after the final deadline will automatically be rejected.

• or by hand to the below address, not later than 17:00 hours (Italy time). Any proposal hand delivered after the final deadline will automatically be rejected.

The proposal must be sent to the following postal address:

European Food Safety Authority - EFSA
REPRO Planning and Monitoring
CFP/EFSA/FEED/2012/01
Via Carlo Magno 1/a
I – 43126 Parma

2.4. HOW TO SEND THE PROPOSALS

Your proposal must be submitted using the double envelope system. The outer envelope should be sealed with adhesive tape, signed across the seal and carry the following information:

• the reference number of the Call (CFP/EFSA/FEED/2012/01)
• the title of the Call (“Extensive Literature Search on the bioavailability of selected trace elements in animal nutrition. Incompatibilities and interactions”);
• the name of the applicant;
• the indication: “Proposal - Not to be opened by EFSA reception – to be passed without opening to the REPRO Planning and Monitoring”;
• the address for submission of proposal (see above);
• the posting date (if applicable) should be legible on the outer envelope.

Proposal must be complete and must include:

The completed Application form (including all annexes) in 1 original paper version and 1 CD containing the complete set of documents as submitted on paper. This electronic version must be identical to the paper version.

In case of any discrepancies between the electronic and original paper version, the latter will prevail. All documents presented by the applicant become the property of EFSA and are deemed confidential.

2.5. FURTHER INFORMATION

Any questions regarding the present Call may be posed by e-mail indicating clearly the reference of the Call CFP/EFSA/FEED/2012/01 no later than on the 16/05/2012. These questions may only be addressed to the following e-mail address REPRO.P&M@efsa.europa.eu.

Replies will be given no later than on the 25/05/2012. Questions together with the answers will be published on the EFSA website.

3. EVALUATION AND SELECTION OF PROPOSAL

Introduction:

After having verified the compliance with all the submission requirements (see 3.1), EFSA selects the admissible proposals through a procedure that involves 3 types of evaluation criteria in this order:

(1) eligibility and exclusion criteria (see 3.2),
(2) selection criteria (see 3.3),
(3) award criteria (see 3.4).

If the submission requirements are not met, the proposal is rejected without looking at the eligibility, selection or award criteria. If the eligibility and exclusion criteria are not met, the proposal is rejected without looking at the selection or award criteria. If the selection criteria are not met the proposal is rejected without looking at the award criteria. It is therefore essential to complete the proposal in full and provide all the supporting documents requested.

An Evaluation Committee will be established in accordance with article 116 of the Financial Regulation and article 178 of its Implementing Rules in order to evaluate the submitted proposals. EFSA intends to finalise the evaluation of proposals within 6 months since the final deadline for submission of proposals. In
compliance with article 116 (3) of the Financial Regulation, the applicant will be informed in writing of the decision on their proposal. Please note that EFSA has the right not to award a grant and to cancel the procedure at any time before the signature of the Grant agreement without any compensation to be paid to the applicant.

**General principles:**
In compliance with the Financial Regulation and its Implementing Rules, the proposals must comply with the following principles:

- **Co-financing rule:** external co-financing from a source other than EU budget is required as indicated in part 1.6;
- **Non-profit rule:** the grant may not have the purpose or effect of producing a profit for the applicant or possible partner;
- **Non-retroactivity rule:** the costs eligible for financing must be incurred after the entry into force of the Grant agreement;
- **Non-cumulative rule:** only a single EU grant may be awarded for a specific project carried out by a given beneficiary in one financial year.

### 3.1. VERIFICATION OF SUBMISSION REQUIREMENTS

The following will be assessed:

- **The final deadline for submission of proposals:** If this deadline has not been respected the proposal will automatically be rejected.
- The proposal is submitted on **Application form** and is **duly signed** by the authorised representative of the applicant. If the applicant did not submit the proposal using the Application form or if this form is not signed then the proposal may be rejected on that sole basis.
- **The proposal is complete, including all supporting documents.** If any of the requested information/documents is missing or is not complete the proposal may be rejected on that sole basis.

The proposal which meets all the submission requirements will be considered admissible and will pass to the next stage of evaluation process – verification of eligibility criteria.

### 3.2. ELIGIBILITY CRITERIA AND EXCLUSION CRITERIA

#### 3.2.1. ELIGIBILITY OF THE APPLICANT AND ITS POSSIBLE PARTNERS

Applicant is offered the possibility to apply individually, or in a consortium with partners established for the purpose of the project implementation. In case the applicant wants to apply in a consortium it is up to him to identify the partners.

According to Regulations 178/2002 and 2230/2004 *both applicant and possible partners must comply with the essential condition of being on the list adopted by the Management Board of EFSA on the 20th of December 2006 (implying fulfilling all criteria set in article 1 of Regulation 2230/2004), as amended.*

An applicant may not submit more than 1 proposal under this Call.

**Documents to be provided on support of eligibility of the applicant and the possible partners**

- **LEGAL ENTITY FORM** to be completed and signed separately by the applicant and by each of its possible partners. This legal entity form should be returned together with a copy of the public legal act establishing the entity in question or failing that, any other official document attesting to the establishment of the entity, clearly indicating it pursues public interest objectives. EFSA provides a template to be used – Annex 1 of the Application form.

In case the applicant applies in a consortium with partners, both applicant and the partners must participate in the project both financially and technically/intellectually.

Regarding the applicant, please note the following:

- There may be only one applicant per project;
- The applicant must submit the proposal on behalf of consortium to EFSA;
- The applicant must act as the intermediary for any communications between the partners and EFSA;
• The applicant shall be liable vis-à-vis EFSA for the correct and timely fulfilment of the obligations of the partners, and receive and answer all claims EFSA might have in relation to the performance of the action;
• The applicant shall inform EFSA and the partners of any event they are aware of that is liable to substantially affect the implementation of the project;
• The applicant participates in the project, for which his costs are borne.
• The applicant shall request and receive all payments made by EFSA, and shall be responsible for distributing them among the partners.

Regarding the partner organisations, please note the following:
• Partners participate in the project, for which their costs are borne.
• Partners shall forward to the applicant the data needed to draw up the reports, financial statements and other documents provided for in the Grant agreement;
• Partners shall immediately inform the applicant of any event liable to substantially affect or delay the implementation of the project.

As mentioned in point 3.2.1 above, the partners must satisfy the same eligibility criteria as the applicant organisation.

In the case of consortium, the Grant agreement will be signed between EFSA, the applicant and the partners. In the case of selection of its proposal, the applicant will become the Coordinator-Beneficiary (hereinafter referred to as “the Coordinator”) and its possible partners will become the Co-beneficiaries within the framework of the Grant agreement. For the purposes of the proposal, it is required that the applicant and his partners provide EFSA with a partnership statement defining the technical/intellectual and financial involvement of each of them. Each organisation (applicant and all partners) must sign this partnership statement.

Should a member of a consortium already be either directly or indirectly financially supported by the EU budget, its costs, direct or indirect, are not eligible under the present project, unless adequate proof is provided to EFSA that there is no double financing of costs.

In case of a consortium: documents to be provided in support of the eligibility of the consortium of the applicant and its partners
• Partnership statement defining the technical/intellectual and financial involvement of each member of the consortium (applicant and partners) signed individually by each member of consortium (see Annex 7 of the Application form).

Subcontracting:
The applicant and its possible partners are expected to have the resources necessary to carry out the work required by the project. In certain circumstances though, it could be more economic or efficient to subcontract some aspects of the work. In any case in which the applicant and its possible partners are willing to subcontract certain aspects of the work under the conditions hereinafter, prior written authorisation from EFSA shall be requested. In any case, where implementation of the project requires the award of subcontracts, they shall be awarded by applying public procurement procedure to the tender offering best value for money. The beneficiary has to be able to demonstrate that he has chosen the subcontractor/tenderer offering the best value for money, that is to say, to the one offering the best price/quality ratio, in compliance with the principles of transparency and equal treatment for potential contractors, care being taken to avoid any conflict of interests.

Sub-contracts of this type may be awarded only subject to the following conditions:
• Recourse to the award of sub-contracts must be justified with regard to the nature of the project and what is necessary for its implementation;
• Project management, organisation or any core tasks cannot be subcontracted;
• Subcontracting may only be used to subcontract ancillary and assistance related tasks.
• The tasks intended to be subcontracted and the corresponding estimated costs must be set out in the Estimated budget and approved by EFSA before the signature of the Grant agreement;
• Any recourse to the award of sub-contracts while the project is in progress, if not envisaged from the outset in the proposal, is subject to prior authorisation in writing by the EFSA;
• The Coordinator and the possible Co-beneficiaries retain sole responsibility for implementing the project and complying with the provision of the Grant agreement;
• The Coordinator and the possible Co-beneficiaries undertake to ensure that the conditions applicable to them as regards responsibility, conflict of interests, ownership and use of results, confidentiality, publicity, transfer of claims, and controls and audits also apply to the sub-contractor.
Please note that sub-contractors are not partners. Subcontractors are organisations formally contracted by the applicant or its possible partners to carry out specific tasks. Cost of subcontracting is borne by the applicant and/or the possible partners and the subcontractor doesn't contribute financially to the project.

External expertise can be provided only under the following conditions:
- External experts should be recruited, at least temporarily, based on an employment contract and the payment for expert should be based on a monthly salary slip as contrary to the invoice (i.e.: the expert does not issue invoices for carrying out the tasks foreseen, but is recruited by the applicant/partner and he receives a monthly salary for his work);
- Subcontracting may be used for ancillary and assistance related tasks.

3.2.2. EXCLUSION CRITERIA

Article 114(2) of the Financial Regulation states that “Grants may not be awarded to applicants who are, at the time of a grant award procedure, in one of the situations referred to in Articles 93 and 94”. Accordingly, applicant and possible partners must certify that they are not in one of the following exclusion situations:
- they are in a state of or subject to proceedings for bankruptcy or liquidation, are having their affairs administered by the courts, have entered into an arrangement with creditors, have suspended business activities or are in any analogous situation arising from a similar procedure provided for in national legislation or regulations;
- they have been convicted of an offence concerning their professional conduct by a judgment which has the force of res judicata;
- they have been guilty of serious professional misconduct proven by any means which the contracting EFSA can justify;
- they have not fulfilled their obligations relating to the payment of social security contributions or taxes in accordance with the statutory provisions of the country in which they are established, the country of the awarding EFSA or the country where the contract is to be performed;
- they have been the subject of a judgment which has the force of res judicata for fraud, corruption, involvement in a criminal organisation or any other illegal activity detrimental to the financial interests of the Union;
- following another procurement procedure or grant award procedure financed by the Union budget, they have been declared to be in serious breach of contract for failure to comply with their contractual obligations.

In addition, grants may not be awarded to applicants who, at the time of the selection procedure:
- are subject to a conflict of interest;
- have been guilty of misrepresentation in supplying the information required by EFSA as a condition for participation in the award procedure or in failing to supply this information.

Please note that, according to article 175 of the Implementing Rules, administrative and financial penalties may be imposed in the event of false declarations.

Documents to be provided on support of eligibility of the applicant and the possible partners

- **THE DECLARATION OF HONOUR** to be completed and signed separately by the applicant and by each of its possible partners. EFSA provides a template to be used – Annex 2/1 of the Application form.
- **DECLARATION OF INTEREST FOR NATURAL PERSONS** performing tasks of the grant agreement assigned to the beneficiary (Personal DoI for contractors and beneficiaries) - Annex 2/2

3.3. SELECTION CRITERIA

Only proposals which have satisfied the requirements of the eligibility criteria will be evaluated against the selection criteria. The selection criteria are used to evaluate the applicant's (and its possible partners') financial and operational capacity.

3.3.1. FINANCIAL CAPACITY OF APPLICANTS AND POSSIBLE PARTNERS

The applicant and its possible partners must have stable and sufficient financial resources to:
1. maintain their activity throughout the period during which the project is being carried out and
2. participate in its funding;
The applicant must prove that it has available, throughout the duration of the project, own financial resources and he can count on the financial contributions from his partners (mandatory in case of consortium) and/or from other public sector bodies.

**Documents to be provided by the applicant and possible partners:**
- LETTER OF COMMITMENT signed by the public sector body (see 4.1.1.2)(not obligatory for partners of the consortia, only if a third party contributes to the project, such as local government, the state, other subsidies...); the letter must express a confirmation of commitment of such public sector body to financially contribute to the project (see Annex 8 of the Application form)

### 3.3.2. OPERATIONAL CAPACITY OF APPLICANTS AND POSSIBLE PARTNERS

The applicant and its possible partners must have the management capacity, professional competencies and qualifications required to successfully complete the proposed project. To prove their operational capacity, the applicant and the possible partners must provide the following information:

**Documents to be provided by the applicant and possible partners:**
- THE LATEST AVAILABLE ANNUAL ACTIVITY REPORT in order to prove that the applicant (partner) is active in the specific field and is aware of the type of activities with which this Call is involved (see Annex 3 of the Application form)
- THE CURRICULUM VITAE of the project manager/s and scientific staff to be involved in the project, (see Annex 6 of the Application form).
- DETAILED DESCRIPTION OF AT LEAST TWO SIMILAR ACTIONS/PROJECTS carried out during the last 5 years, indicating the subject, partners and budget amount used (see Annex 4 of the Application form).
- ANY REFERENCES concerning participation in grant agreements or contracts concluded for EU funded activities or with other international organisations and Member States (see Annex 5 of the Application form).

### 3.4. AWARD CRITERIA

Only proposals which have satisfied the requirements of the eligibility and selection criteria will be evaluated against the award criteria. The award criteria are used to assess the quality of the proposals submitted and enable the identification of proposal for which EFSA can be confident that it will comply with EFSA objectives and priorities. There are the following 3 main award criteria in this Call:

<table>
<thead>
<tr>
<th>CRITERIA</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. QUALITY OF THE PROPOSAL</td>
<td>55 points</td>
</tr>
<tr>
<td>1. The extent to which the proposal achieves the objectives of the Call, guarantees an excellent level of science output and demonstrates its capacity to provide significant and sustainable impact and added value to the existing knowledge</td>
<td>30 points</td>
</tr>
<tr>
<td>2. The extent to which the project is described in detail, as well as the proposed methodology is well described and of high quality, and the feasibility of the timetable</td>
<td>25 points</td>
</tr>
<tr>
<td>2. QUALITY OF THE MANAGEMENT (INCLUDING CONSORTIUM, if applicable)</td>
<td>35 points</td>
</tr>
<tr>
<td>1. The extent to which the project management and the internal project communication is described and is demonstrably of high quality</td>
<td>20 points</td>
</tr>
<tr>
<td>2. The extent to which the implementation of the project by the experts involved and their real participation have been clearly described and appear to be suitable to the tasks/objectives targeted</td>
<td>15 points</td>
</tr>
<tr>
<td>3. COST EFFECTIVENESS</td>
<td>10 points</td>
</tr>
<tr>
<td>1. the extent to which the Estimated budget is cost–effective (comparison between the costs and the anticipated achievement of the objectives and results obtained)</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>100</td>
</tr>
</tbody>
</table>

In order to be considered for funding, the proposal must:
- score a minimum of 60 points in total out of possible 100 points and
• for each sub-criterion (1.1, 1.2, 2.1, 2.2, 3.1), score at least half of the points attributed to that criterion.

Proposals which have satisfied these thresholds will be ranked. Depending on budget availability, the highest ranked proposal will be awarded a grant from EFSA.

4. GRANT AGREEMENT AND PAYMENTS

According to article 116 (3) of the Financial regulation, applicants will be informed in writing of the decision on their proposal. If the grant requested is not awarded, EFSA will give the reasons for the rejection of the application. Following the decision to award a grant, a Grant agreement will be proposed to the successful applicant. The project may begin at the earliest on the day the Grant agreement has been signed by the last of the parties (EFSA signature). Costs incurred prior to the date of the signature of the Grant agreement will not be considered as eligible.

4.1. CALCULATING THE EFSA GRANT

4.1.1. ON THE BASIS OF THE ESTIMATED BUDGET - BEFORE IMPLEMENTATION OF THE PROJECT

Following the financial analysis of the Estimated budget (see point 4.1.1.1.), the evaluation committee will decide the exact amount of EFSA grant which will be expressed: 1. as an amount in € and 2. as a percentage of the total eligible project cost (EFSA participation percentage).

4.1.1.1. Estimated Budget and its Cost Side

All proposals must be supported by Estimated budget. It must be submitted as Annex 9 of the Application form showing all the costs and income which the applicant considers necessary to carry out the project. Estimated budget must:

- Be sufficiently detailed to permit identification, monitoring and checking of the proposed costs;
- Be balanced, i.e. total income and costs must equal;
- Be consistent with the work plan;
- Be expressed in Euros. This requirement is due to the fact that EFSA grant will be expressed in Euros only. Applicants from countries where the Euros is not national currency are asked to use the official ECB exchange rate published on: http://www.ecb.int/stats/exchange/eurofxref/html/index.en.html on the date of launch of the Call.

The Estimated budget shall have the following headings on the side of costs:

Eligible direct costs:
1. Costs of permanent or temporary staff;
2. Travel and subsistence costs;
3. Equipment;
4. Consumables and supplies;
5. Subcontracting;
6. Miscellaneous costs directly linked to the project. These are costs arising directly from requirements imposed by the Grant agreement;

!!!ATTENTION!!!

The figures of staff costs (item A1) shall be documented (it is sufficient to submit them in electronic format, such as PDF, together with proposal, as Annex 10 of the Application Form) by the 12 last available salary slips of the staff members proposed to work within the project. For the part of the salary cost not mentioned on the salary slips (as is sometimes the case with employer’s contribution to the national social security), other accounting documents should be provided (e.g. extracts from the ledger or IT accounting system showing the individual accounting entries for the concerned staff members). Centralised or global overviews not enabling EFSA to isolate the concerned costs are unacceptable.

If the concerned staff member was not employed during the full last 12 months, all available salary slips should be provided and the fictional annual salary should be calculated on the basis of these documents.
If the provided documents are not drawn in English, it would be much appreciated to provide an informal translation or explain the terms on these documents as it would significantly accelerate the evaluation procedure of the calls.

Unilateral declarations regarding staff costs by the applicant himself, extracts from legal acts or general internal guiding documents are insufficient.

Starting from the provided documents, a full reconciliation should be possible with the yearly salary mentioned by the applicant in the estimated budget submitted with the proposal. If the in the estimated budget mentioned yearly salary differs significantly from the one calculated on basis of the submitted documents, this should be explained and documented as well and it will be subject to a detail analysis by EFSA Finance Unit.

If the staff costs contain salary estimations for staff members to be recruited (for the purpose of the project) an explanation has to be given how the yearly salary cost was calculated referring to grade, seniority and the normal basic salaries applicable to that category of personnel.

**Eligible indirect costs:**

7. The indirect costs incurred in carrying out the project may be eligible for a flat-rate funding fixed at not more than 10% of the total eligible direct costs.

4.1.1.2. Income Side of Estimated Budget

- **Applicant's** and possible **partners'** direct financial contribution to the project - MANDATORY;
- **Grant requested from the EFSA**;
- **OPTIONAL - Possible external financial contributions to the project, but only from the public sector bodies**; these other contributions are possible contributions from any other public sector bodies other than EFSA, applicant and possible partners. Each such public sector body must sign a letter of commitment to the project. Financial contribution to the project budget from a private sector body is NOT allowed.

**Interest generated on EFSA pre-financing:**
The interest generated on EFSA pre-financing cannot be treated as an income for the project, therefore it may not be entered on the income side of the Estimated budget. The EFSA will recover this interest in accordance with terms of the Grant agreement.

4.1.1.3. Financial Analysis of Estimated Budget

The Estimated budget as presented by the applicant with the proposal is analysed by EFSA in order to:

a) assess whether it is consistent with the proposed project and decide whether the Estimated budget is sufficiently detailed to consider funding of the project;
b) assess whether the Estimated budget matches the specific objectives/expected results of the project;
c) eliminate any item of costs which cannot be accepted according to the Rules on eligibility of costs;
d) if necessary, propose a downward revision of the Estimated budget in relation to some items of costs considered as being excessive compared to the nature of the project and/or to the volume of work that has to be implemented in order to achieve the planned results.

!!ATTENTION!!

The proposal should enable EFSA to evaluate the estimated budget, i.e. it should contain the detailed justification of the necessity of the proposed expenditure for performance of the project covered by the call. An over- or underestimation of costs will have a negative impact on the evaluation score under the award criteria named “Cost effectiveness”.

This analysis is made in accordance with the **Rules on eligibility of costs** (see annex 1 of this Call). It is EFSA who takes the final decision as regards the nature and amount of the costs to be considered eligible. Either at this stage – when analysing proposals in order to agree the Approved Estimated Budget, or later – when examining financial statements of costs actually incurred in order to determine the final amount of the grant (see point 4.1.2).

4.1.1.4. Approved Budget

If, following the financial analysis, EFSA regards the Estimated budget as realistic, established in accordance with the Rules on eligibility of costs and no modification is needed, it will become the **Approved Estimated Budget** and the EFSA grant may correspond to the applicant's request. In some cases, however,
the analysis of the Estimated budget could result in suggestions for reductions as a consequence of, e.g. the correct application of the Rules on eligibility of costs. Accordingly, if following the financial analysis, EFSA suggests some modifications to the Estimated budget, it will present those modifications to the applicant. After the proposed modifications are accepted by the applicant and EFSA, the Estimated budget as modified will become the Approved Estimated Budget for the project. For further details regarding eligibility of costs please refer to the Rules on the eligibility of costs.

4.1.2. ON THE BASIS OF THE FINAL ACCOUNTS – AFTER IMPLEMENTATION OF THE PROJECT

The EFSA grant will be recalculated after completion of the project, presentation of the final report and the related supporting documents. This recalculation will consist in applying the EFSA participation percentage (agreed in the Grant agreement) to the total actual eligible costs (EFSA grant as expressed in the Grant agreement was calculated on the basis of total estimated eligible costs). Please note that EFSA has the right to audit all costs and income for the project.

1. If, at the end of the project, the total actual eligible costs are lower than was estimated in the Estimated budget, the EFSA grant will equal the amount obtained by applying the EFSA participation percentage to the total actual eligible costs as approved by EFSA.
2. If the actual eligible costs are higher than was estimated in the Estimated budget, EFSA grant cannot under any circumstances exceed the amount stated in Euros in the Grant agreement.

The EFSA grant shall be limited to the amount necessary to balance the project income and costs and it may not in any circumstances produce a profit for the Coordinator and the possible Co-beneficiaries. Profit shall mean any surplus of total actual income attributable to the project over the total actual costs of the project. The actual income to be taken into account shall be that which has been established (irrespective whether already received or not) on the date on which the request for payment of the balance is drawn up to which shall be added the amount of EFSA grant determined as mentioned above. Any surplus determined in this way shall result in a corresponding reduction in the amount of EFSA grant. As regards the actual costs, it is important that the costs are incurred during the lifetime of the project, which doesn’t necessarily mean that the cost has in fact has to be paid in that lifetime.

4.2. SUBMISSION OF REPORTS AND PAYMENT ARRANGEMENTS

Within 45 days from the date of the signature of the Grant agreement by EFSA, a pre-financing payment equalling to 15 % of EFSA’s grant will be made to the bank account indicated in the Grant agreement.

The payment of the balance will be made according to the Grant agreement and will be linked to approval of the final deliverables (see 1.5).

4.3. ACCOUNTING RECORDS OF THE PROJECT AND AUDIT

Accounting records:
The Coordinator and the possible Co-beneficiaries must keep accurate and regular accounting records as well as separate and transparent accounts of the implementation of the project. The Coordinator and the possible Co-beneficiaries must keep all the accounting records and all the supporting documents underlying the accounting records regarding the project for the period of five years after the payment of the balance.

Audit:
The Coordinator and the possible Co-beneficiaries will have to provide any detailed information requested by EFSA or by any other outside body authorised by EFSA to check that the project and the provisions of the Grant agreement are being properly implemented. The Coordinator and the possible Co-beneficiaries must agree that EFSA may have an audit of the use made of the grant carried out either directly by its own staff or by any other outside body authorised to do so on its behalf. Such audits may be carried out throughout the period of implementation of the Grant agreement until five years from the date of payment of the balance.

Please note that by virtue of Council Regulation (Euratom, EC) No 2185/96 and Regulation (EC) No 1073/1999 of the European Parliament and the Council, the European Anti-Fraud Office (OLAF) may also carry out on-the-spot checks and inspections in accordance with the procedures laid down by Union law for the protection of the financial interests of the European Union against fraud and other irregularities.

Finally the Court of Auditors shall have the same rights as EFSA, notably right of access, as regards checks and audits.
5. PROTECTION OF PERSONAL DATA AND PUBLIC ACCESS TO DOCUMENTS

5.1. PROTECTION OF PERSONAL DATA IN RELATION TO GRANT PROCEDURES

Processing your application in the context of this grants procedure, will involve the recording and processing of personal data (i.e. the name, any CV and contact details and/or financial details of individuals contained in your application) pursuant to Regulation (EC) No 45/2001. Unless indicated differently, any personal data contained in your application are required to evaluate your application in accordance with the Call for proposals and will be processed solely for that purpose. Individuals acting or presented on behalf of applicants, are entitled to obtain access to their personal data on request and to rectify any such data that is inaccurate or incomplete until the deadline for submission of proposals indicated in part 2.3.

Recipients of personal data at EFSA are all staff members involved by virtue of EFSA’s Financial Regulation in the grants preparation process, including: the members of the opening and evaluation committees, the staff of the unit/directorate acting as authorising officer for the related grant agreement, the Finance and Legal Units as well as the Accounting Officer regarding the financial and legal verification, the grant agreement preparation and financial and grant management.

If you have any queries concerning the processing of personal data in the context of this grant procedure, you may address them to the unit/directorate acting as authorising officer for the grant and signing the Call for proposals. Such queries may be followed up further with the Head of EFSA Finance Unit, identified as controller for personal data processing in the context of grant management at EFSA. You have the right of recourse at any time to the European Data Protection Supervisor for matters relating to the processing of personal data.

5.2. PUBLIC ACCESS TO DOCUMENTS


Name of the
Authorising Officer: ……………………………

Signature of the
Authorising officer:……………………………..

Date:……………………………………………..

---


12 Applicants are also informed that for the purposes of safeguarding the financial interest of the EU, personal data may be transferred to internal audit services, to the Court of Auditors, to the Financial Irregularities Panel and/or to the European Anti-Fraud Office (OLAF). Data of economic operators which are in one of the exclusion situations referred to in Articles 93, 94, 96(1) and 96(2)(a) of the general Financial Regulation may be included in a central database and communicated to the designated persons of the European Commission, other institutions, agencies, authorities and bodies mentioned in Article 95(1) and (2) of the general Financial Regulation. This refers as well to the persons with powers of representation, decision making or control over the said economic operators. Any party entered into the database has the right to be informed of the data concerning it upon request to EFSA. EFSA will obtain the requested information for the accounting officer of the European Commission.
LIST OF ANNEXES

ANNEX 1: RULES ON ELIGIBILITY OF COSTS