

LOCAL OPEN MARKET CONSULTATION (LOMC). BASIC CLAUSE. BiGS PROJECT – GUÍASALUD INTELLIGENT LIBRARY.

ANNOUNCEMENT CLAUSE

The Local Open Market Consultation (LOMC) is announced for the search of innovative solutions in innovation projects related to the evolution and improvement of the GuíaSalud website, through the use of new technologies.

BiGS – GuíaSalud Intelligent Library

Information about it can be found on the website:

<http://www.iacs.es/compra-publica-innovacion-portal-guiasalud/>.

DESCRIPTIVE REPORT OF THE NEEDS TO BE SATISFIED AND SCOPE OF THE CONSULTATION CLAUSE

The present LOMC, based on the provision of Article 40 of the Public Procurement Directive 2014/24/EU, is intended to solicit market information on possible solutions to the need for improving the processes and procedures in a renewed GuíaSalud website, using new technologies.

The overall objective is to develop a fully functional and renewed website for GuíaSalud with a user-centered visual design and tools for intelligent analysis of semantic data. In short, it is a functional website for the various stakeholders and interest groups of GuíaSalud (professionals, patients and the public, Clinical Practice Guidelines and OPBE developers, management bodies and management other collaborators).

The general needs are defined in the descriptive report, published on the tender's website: <http://www.iacs.es/compra-publica-innovacion-portal-guiasalud/>.

This activity is carried out within the Ministry for Health, Social Services and Equality funding framework for the development of activities in the Annual Work Plan of the Spanish Health Technology Assessment (HTA) Network.

AREAS OF NEEDS OF THE CONSULTATION CLAUSE

The specific scope of the market consultation can be defined around round general requirements and four areas of need that are detailed below:

GENERAL REQUIREMENTS

In addition to the specifications detailed below in this document, it will be generally valued:

- No significant recurring costs on post-installation licenses or specific maintenance fees.

- Modules that are integrated in the GuíaSalud website should have access to the user's database to conform an ecosystem.
- Future maintenance plan, support and training for the GuíaSalud website team.

WORK PACKAGE 1. Analysis and prototyping: Definition of optimal web architecture, objectively improving the user experience.

Usability goals:

- To maximise user performance (success of tasks, duration of task, reduction of errors, maximize efficiency).
- Minimization of problems / errors.

Main needs:

- User-centered prototype.

- Analysis and improvement proposals to optimise the user experience.
- Based on the objectives and GuíaSalud user profiles, statistics of use, and target audience, to elaborate a proposal based on a novel semantic web.
- Emphasis on aspects such as accessibility, utility and user interaction.
- Test with real users that correspond to the potential user profile of GuíaSalud.

- To make the site map.

- Restructuring of site contents
- Wireframes, mockups and prototypes development, sufficient for the subsequent implementation.

- Visual design. High-fidelity prototyping.

- Adapted to different platforms and devices (computer, smartphones, tablets, etc.).

WORK PACKAGE 2. Content management: Development and implementation of semantic web, fully adaptive (responsive), integrating all information and modules, both the current GuíaSalud website, and future.

Positioning Goals:

- To maximise number and efficiency of visits .
- To optimise SEO
- To maximise website quality and credibility index (Page Authority, Domain Authority, others).
- To maximise social networks interactions.
- To update and enhance brand image.

Goals for efficient management of GuíaSalud website. New system to reduce number of tasks and duplications in:

- Management of different user profiles.
- Introduction of dynamic content.

- Management of different formats of contents.

Goals for operability and interoperability of GuíaSalud website:

- New areas for shared work (ATC).
- Access from other systems

Main needs:

- Web development that incorporates all the functionalities and behaviour required by the previous phase.

- Adaptive (responsive), for any device.
- SEO optimisation fully developed for all pages.
- Compliance with all applicable existing regulations (for example that regarding accessibility or personal data protection).
- Social Networks integration
 - ♦ Possibility of interaction, sharing content in social networks.
 - ♦ To integrate social network content in the website.
- Dynamic content templates (news, events, etc.)
 - Simple content introduction.
 - Check dates usage.
 - Synchronisation with the calendar.
- Forms for different services or procedures
- Modular and scalable system architecture.
 - ♦ Open source, interoperability: Possibility of evolutionary maintenance that adapts to future needs.
 - ♦ Easy and intuitive management of system contents (administration, updating, forms, etc.).

- Integration and configuration of Google's statistics service.

- New ways to for communicating with users

- Newsletter (or new concepts of periodic diffusion) with dynamic content (i.e. RSS).
- Modifiable manually (static information input).

- System for user profile accounts with different authorizations, accessible from all modules to be integrated.

- Flexible, cross-platform ATC integration.

- Task manager format: Quick visualization of projects in which the user participates.
- Possibility to set dates for reminders and notifications via email.
- Possibility PDF, images, documents and spreadsheets attachment.
- Possibility to integrate with Office Online to modify documents and spreadsheets, introduce of comments, etc.

- Availability of a messaging/notes/comments system between users of each project.
- Module for CPG Catalogue management.
 - New application form for CPG inclusion in the Catalogue for CPG developers with the possibility of attaching documents.
 - Possibility for the data entered in the form to be turned over to the GuíaSalud database and CPG metadata, to speed up its revision and completion.
- Module for hosting an e-learning platform based on gamification.
- Updated module for CPG Public Exposure.
 - New registration form for interest groups (GI) more effective, where statement document can be attached. Possibility of electronic signature support.
 - Online space for the IG to be able to provide comments on CPG during the Public Exposure phase.
 - Module where all the comments made on a CPG by the GI and the GEG's are stored, as a list where the users can filter by CPG, GI or part of the CPG to which the comment refers.

WORK PACKAGE 3. Integration, semantic web and data exploitation: Adaptation of the entire GuíaSalud document management system (from the current website or different sources) to data models that propose an efficient solution (documents, graphs, hybrids , Etc.) to build the core of the new semantic web.

Goals for information integration:

- To organise the information more efficiently
- To maximise information units integration.

Main needs:

- Adaptation and incorporation of semantic content to GuíaSalud website.
- Integration of information sources throughout the website: Database (BDA).
 - Integration of the different information units (CPG within the CPG NHS Programme Framework, CPG from the Catalogue, OEBP, "Do not do" recommendations, Methodology).
 - Flexible system with possibility to incorporate other sources of information with different formats (Health Technology Assessment reports and "do not do" recommendations) and languages (English)
 - Content classification system structured and adapted to GuíaSalud needs, able to learn how to classify new contents that are introduced in the system, classification by meaning and not by textual content.
 - Effective internal search engines that ease information units management, using boolean operators and filters by ID Number, GPC status, etc..

WORK PACKAGE 4. Intelligent Search Engine: Based on Natural Language Processing (NLP) that works on all the content available in the GuíaSalud website.

Search goals:

- To maximise capability for resolution of specific decision-making situations.
- To maximise number of searches considered effective.
- To maximise the degree of coincidence with respect to search queries.

Main needs:

- Intelligent search engine based on language technologies (assistant).

- The system must understand questions and queries formulated in both natural and simplified language.
- It must be able to support queries made by voice and enable voice responses in these cases.
- It should be able to identify and understand queries made in Spanish (from Spain and Latin America) as well as in English.
- The search engine must be able to trace objects, as well as texts, images or diagrams within the information units to provide more accurate responses.
- Must offer content extraction (responses) in two non-exclusive formats:

Direct and concrete extraction, based information units available in the GuíasSalud website (Clinical Questions and recommendations from CPG within NHS Programme, CPG within NHS Programme and its different versions, CPG from Catalogue, OEBP, "do not do" recommendations, etc.).

- ♦ Responses offered must be adapted to the user who carries out the consultation (patient or professional) if there is a version of the CPG for different profiles.
- ♦ Questions should be answered in the same language as they are formulated, although more detailed contents (i.e. Full text CPG or Health Technology Assessment Reports) will be displayed in the original elaboration language of (Spanish or English).
- ♦ It should, if appropriate and content is available, respond explicitly, for example, in the case of quantitative variables.
- ♦ If necessary and applied to the question, the system could graph the information in a way that produces a more visual response to the user.
- ♦ Interoperability of output data, ability to copy, export, share, etc..
- ♦ If the response offered comes directly from a CPG recommendation, the strength of the recommendation (strong or weak) should be indicated.
- ♦ Search results should indicate where the extracted content comes from (what part of the CPG, what CPG, what specific material for patients, etc.).
- ♦ It should be correctly integrated with the layered CPG format, with the possibility of having information about the context, relevant clinical considerations and more information.

Reference Retrieval to the most significant information units that match the search query.

- It must identify the status of the information retrieved; GuíaSalud products have an expiration date.

- In general, it is necessary that the information retrieval allows the user to filter as in a faceted search engine: a) in which kind of information source the search is done (CPG, “do not do” recommendations, time limits, etc.); b) what type of information is displayed (text, images, tables, etc.).
- Possibility of searching by information units based on their content, according to the classification system determined by GuíaSalud in the previous steps.
- It must allow the interaction of the user on the validity of the response provided, indicating whether it was useful and adequate.
- According to all user interactions, the search system must be able to learn both to identify the type of user and to offer better answers according to the query (machine learning).
- Signed-up users in GuíaSalud website must be able to have a search history and store contents of interest (favorites, read later, etc.).
- Must have an evolutionary maintenance for adaptation to the needs that may arise (incorporation of new contents, documents with different formats, different languages, etc.).

- Standalone APP as QA assistant, which facilitates access to response and original contents retrieved in a simplified way from any device.

TEMPORARY FORECAST FOR PUBLIC BID CLAUSE

The provisional forecast to be able to carry out the bidding and fulfill the functional need is 15 months long and is considered to have an estimated value of 79.000 € (VAT excluded). Proposals that exceed the estimated value will be accepted.

DEFINITION OF INNOVATION CLAUSE

"Innovation" means the introduction of a new or significantly improved product, service or process, including, but not limited to, production, building or construction processes, a new marketing method or new business practices, workplace organization or external relations, inter alia with the aim of helping to solve societal challenges or to support the Europe 2020 strategy for smart, sustainable and inclusive growth "(Clause 1.2 of the 2014 Directive/24/ EU).

MULTIDISCIPLINARY TECHNICAL EQUIPMENT CLAUSE

They are part of the multidisciplinary technical team:

- Director of the Knowledge Transfer Area, IACS
- Director of the Management Area, IACS
- Evidence-Based Decision-Making Area Project Manager, IACS
- Evidence-Based Decision-Making Area Analyst, IACS
- Technician of the Information Systems Unit, IACS
- Information Systems Unit Project Manager, IACS
- ARiHSP Group (Health Services and Policy Research) Analyst, IACS

Its function in this procedure prior to the contract is to advise the contracting authority to prepare the questionnaires and information that will be used to support the LOMC, and to resolve the doubts and questions that arise during the same.

In addition, the technical team will participate in the preparation of the report containing the results of the consultation.

APPLICATION OF THE PRINCIPLES OF TRANSPARENCY, EQUALITY OF TREATMENT AND NON-DISCRIMINATION CLAUSE

Participation in the consultation, contacts with participants or exchanges of information shall in no case lead to infringements of the Community principles of transparency, equal treatment and non-discrimination in public procurement, and shall not have the effect of restricting or limiting Competition, or grant advantages or exclusive rights.

PROCEDURE OF CONSULTATION CLAUSE. ELECTRONIC FORM

1. The call is open and is addressed to individuals or legal entities who intend to collaborate with (the proposing body is the Executive Director of IACS) by providing information on the state of science or the market as to whether there are certain developed or developing solutions related to the subject of this consultation and, where appropriate, submitting proposals specifying both the definition and scope of tasks, such as its implementation and degree of technological innovation.

The submission of several proposals by the same individual or legal entity will be allowed.

2. All those interested in participating in the consultation will complete the request form to participate in the consultation, available in Annex 1 and on the website:

<http://www.iacs.es/formulario-participacion-cpm/>

For the any doubts and questions, the interested parties will complete the corresponding form, available in Annex 2 and in the website:

<http://www.iacs.es/formulario-preguntas-cpm/>

The doubts and questions asked will be answered and published by the contracting authority on the website (Annex 3):

<http://www.iacs.es/formulario-respuestas-cpm/>.

For the presentation of solutions, the interested parties will fill in the corresponding electronic form, available in Annex 3 and in the website:

<http://www.iacs.es/formulario-presentacion-soluciones-cpm/>

All forms must include the necessary identification data as well as any information deemed appropriate.

PROCEDURE OF CONSULTATION CLAUSE. DEVELOPMENT

1. This LOMC lasts in two months after its publication.

The electronic portal will include the various issues and additional information:

<http://www.iacs.es/compra-publica-innovacion-portal-guiasalud/>.

2. A face to face consultation will be held on 26th July 2017. Detailed information on this event will be published on the website

<http://www.iacs.es/compra-publica-innovacion-portal-guiasalud/>.

3. The use of the content of the proposals will be limited exclusively to their use in the definition of the specifications of any contracting procedure that follows the LOMC.

4. The Final Report with the results of the Consultation will be published on the website <http://www.iacs.es/compra-publica-innovacion-portal-guiasalud/>.

LANGUAGE OF THE CONSULTATION CLAUSE

The official language of this preliminary market consultation is Spanish.

In order to facilitate the participation of abroad bidders, the consultation's documents will also be provided in English.

Tenderers may submit their proposals or information in Spanish or English.

The communication with the bidders during the consultation procedure to answer the questions they raise will be done in Spanish and in English.

CONTENT TO BE FACILITATED BY PARTICIPANTS CLAUSE

The participants in the consultation should facilitate the level of development in which the proposed solution is, the estimated execution time and the economic impact assessment.

CONFIDENTIALITY CLAUSE

Participants will include in the information to facilitate their express consent so that the contracting authority can disseminate their participation and the issues and/or solutions raised in the consultation process.

However, the contracting authority may not disclose any technical or commercial information that may have been provided by the participants, which they have designated and reasoned as confidential.

It is the participants who must identify the documentation or the technical or commercial information that they consider to be confidential, and it is not permissible for them to make a generic declaration or declare that all documents or all information is confidential. Participants may designate some of the documents submitted as confidential.

This circumstance should be clearly reflected (in any form or in the margin) in the document itself designated as such.

PROTECTION OF COMMERCIAL SECRETS CLAUSE

The protection of all information considered commercial secret is guaranteed.

It is considered a trade secret in accordance with Clause 2 of Directive 2016/943 of the European Parliament and of the Council of 8 June 2016 on the protection of undisclosed information and business information (trade secrets) against its unlawful acquisition, use and disclosure of information unknown to the general, relevant, public; which has commercial value; and that it has been the subject of measures to keep it secret, that although it does not refer to industrial secrets, there is nothing to prevent them from understanding that they are excluded, so that it may be understood that business secrets include commercial and industrial secrets.

CONSENT FOR DISSEMINATION OF INFORMATION CLAUSE

In order to ensure the transparency of the process, the availability of the best possible information and the effective exchange of experiences and opinions, the participants give their consent for the contracting authority to include in an accessible and up-to-date form the information communicated in the framework of the consultation.

Specifically, the participants in the consultation give their consent to use the information provided throughout the procedure on the final day where they will be informed of the results of the consultation.

PROTECTION OF PERSONAL DATA CLAUSE

In accordance with the rules of Protection of Personal Data, the contracting authority will store the contact details of the participants in the LOMC in a file that will be their property. This data will be kept for the sole purpose of facilitating contact during the preliminary market consultation procedure.

INFORMATION OF PATENTS AND OTHER INDUSTRIAL OR INTELLECTUAL PROPERTY RIGHTS CLAUSE

Solutions and technical specifications communicated in the context of the preliminary market investigation may refer to a particular make, type, manufacture or provenance or specific procedure, or refer to a patent or other intellectual or industrial property rights.

CONSULTATION PROCEDURE CLAUSE. CLOSING. FINAL REPORT

Once the deadline for submitting proposals has been reached, the contracting authority will compile the proposals submitted, as well as the other information gathered during the consultation. If it is deemed necessary, it may request those who submit proposals to clarify some points of their proposals. In addition, it reserves the right to convene individual participants individually to make a more detailed presentation or to expand information on their proposal. The contracting body, with the assistance and participation of the multidisciplinary technical team, will prepare a final report that will be part of the file, which will include all the information collected with the consultation. In particular, the report shall include all actions taken; the contributions received from

the participants in the consultation; where appropriate, the studies carried out and their authors; The entities consulted, the questions that have been asked and the responses they have given

SUBSEQUENT PUBLIC PROCUREMENT PROCEDURE CLAUSE

Following the preliminary consultation, the contracting authority will publicize the results, respecting the principle of confidentiality. If it deems it appropriate, it may initiate the corresponding procurement procedures as established in the public procurement regulations, defining the functional specifications of the systems, services, products or works to be developed based on the solution ideas collected as a result of the consultation. In any case, these procedures will be open to all possible proposals that meet the established conditions, whether or not they were linked to the preliminary market consultation. Preliminary consultations may not entail the generation of incentives or advantages for the companies participating in it when awarding contracts, nor can it be recognized as an award criterion or as a favourable value to the same prior participation in the process of the award. Local Open Market Consultation.

Attachments

ANNEX 1. Application form for participation in the preliminary market consultation.

ANNEX 2. Form for the presentation of questions and questions.

ANNEX 3. Form for clarifications and answers.

ANNEX 4. Proposal Form for Innovative Solutions for BiGS - GuíaSalud Intelligent Library.



ANEXO 1

BiGS – Biblioteca Inteligente de GuíaSalud

CONSULTA PRELIMINAR AL MERCADO LOCAL OPEN MARKET CONSULTATION

FORMULARIO DE SOLICITUD DE PARTICIPACIÓN EN LA CONSULTA APPLICATION FORM FOR THE CONSULTATION PARTICIPATION

Fecha de solicitud / **Date of application:**

Identificación del participante¹ / **Participant details²:**

| | |
|---|----------------------|
| Empresa/ Organismo / Company/ Organization | |
| <input type="text"/> | |
| Contacto a efectos de comunicación (nombre y apellidos) / Contact person for communications (name and surname) | |
| <input type="text"/> | |
| Contactos adicionales (nombre y apellidos) / Additional contact persons N(ame and surname) | |
| <input type="text"/> | |
| Dirección / Address | |
| <input type="text"/> | |
| Teléfono / Telephone | e-mail |
| <input type="text"/> | <input type="text"/> |

Áreas de actuación / **Work Packages:**

Área de actuación 1 (A1) / **Work Package 1 (WP1):**

Análisis y prototipado: Definición de una arquitectura web óptima, mejorando de manera objetiva la experiencia del usuario.

Analysis and prototyping: Definition of optimal web architecture, objectively improving the user experience.

¹ Los datos de identificación se almacenarán en un fichero del Gobierno de Aragón, garantizando la protección de los datos de carácter personal. Estos datos se mantendrán con el propósito exclusivo de facilitar el contacto con el participante durante el proceso de consulta preliminar al mercado.

² The contact details will be stored in a file property of the Government of Aragón, guaranteeing the personal data protection. These data will be stored with the only purpose of facilitating the contact with the participant along the preliminary market consultation.



Área de actuación 2 (A2) / Work Package 2 (WP2):

Gestión de contenidos: Transformación a web semántica, totalmente adaptativa (responsive), que integre toda la información y módulos, tanto del portal actual de GuíaSalud, como futuros.

Content management: Development and implementation of semantic web, fully adaptive (responsive), integrating all information and modules, both the current GuíaSalud website, and future.

Área de actuación 3 (A3) / Work Package 3 (WP3):

Integración, semantización y explotación de datos sobre la plataforma web: Adecuación de toda la base documental de GuíaSalud (proveniente del portal actual o de otras fuentes) a modelos de datos que propongan una solución eficiente (documental, grafos, híbridos, etc) para conformar el núcleo de la nueva web semántica.

Integration, semantic web and data exploitation: Adaptation of the entire GuíaSalud document management system (from the current website or different sources) to data models that propose an efficient solution (documents, graphs, hybrids, Etc.) to build the core of the new semantic web.

Área de actuación 4 (A4) / Work Package 4 (WP4):

Buscador inteligente: Basado en Procesamiento del Lenguaje Natural (PLN) que trabaje sobre todo el contenido disponible en el Portal GuíaSalud.

Intelligent Search Engine: Based on Natural Language Processing (NLP) that works on all the content available in the GuíaSalud website.



ANEXO 2

BiGS – Biblioteca Inteligente de GuíaSalud

CONSULTA PRELIMINAR AL MERCADO LOCAL OPEN MARKET CONSULTATION

FORMULARIO DE DUDAS Y PREGUNTAS/ REQUEST FOR CLARIFICATIONS AND REQUIERES FORM

| | |
|--|--|
| Fecha de entrega de la/s preguntas/ Date of submission of the query/queries | |
|--|--|

| | |
|--|--------|
| Empresa/ Organismo / Company/ Organization | |
| | |
| Contacto a efectos de comunicación (nombre y apellidos) / Contact person for communications (name and surname) | |
| | |
| Teléfono / Telephone | e-mail |
| | |

| | |
|-----------------|--|
| A1 / WP1 | Análisis y prototipado / Analysis and prototyping Duda o pregunta / Request for clarification or query |
|-----------------|--|

| | |
|-----------------|---|
| A2 / WP2 | Gestión de contenidos / Content management Duda o pregunta / Request for clarification or query |
|-----------------|---|

| | |
|-----------------|--|
| A3 / WP3 | Integración, semantización y explotación de datos sobre la plataforma web / Integration, semantic web and data exploitation Duda o pregunta / Request for clarification or query |
|-----------------|--|

| | |
|-----------------|---|
| A4 / WP4 | Buscador inteligente / Intelligent search engine Duda o pregunta / Request for clarification or query |
|-----------------|---|



ANEXO 3

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CONSULTA PRELIMINAR AL MERCADO LOCAL OPEN MARKET CONSULTATION

FORMULARIO DE RESPUESTA/ CLARIFICATIONS AND ANSWERS FORM

| | | |
|--|--|---------------|
| Fecha de entrega de la/s preguntas/ Date of submission of the query/queries | | |
| Fecha de respuesta de la/s preguntas/ Date of submission of the answer/answers | | |
| Empresa/ Organismo / Company/ Organization | | |
| | | |
| Contacto a efectos de comunicación (nombre y apellidos) / Contact person for communications (name and surname) | | |
| | | |
| Teléfono / Telephone | | e-mail |
| | | |
| Análisis y prototipado / Analysis and prototyping | | |
| A1 / WP1 | Duda o pregunta / Request for clarification or query | |
| | Respuesta / Answer | |
| Gestión de contenidos / Content management | | |
| A2 / WP2 | Duda o pregunta / Request for clarification or query | |
| | Respuesta / Answer | |
| Integración, semantización y explotación de datos sobre la plataforma web / Integration, semantic web and data exploitation | | |
| A3 / WP3 | Duda o pregunta / Request for clarification or query | |
| | Respuesta / Answer | |
| Buscador inteligente / Intelligent search engine | | |
| A4 / WP4 | Duda o pregunta / Request for clarification or query | |
| | Respuesta / Answer | |



ANEXO 4

BiGS – Biblioteca Inteligente de GuíaSalud

CONSULTA PRELIMINAR AL MERCADO LOCAL OPEN MARKET CONSULTATION

FORMULARIO DE PRESENTACION DE SOLUCION / SOLUTION SUBMISSION

| | |
|--|--|
| Fecha de entrega de la/s preguntas/ Date of submission of the query/queries | |
|--|--|

| |
|---|
| Empresa/ Organismo / Company/Organization |
|---|

D./D^a. , con D.N.I. n^o mayor de edad, con domicilio en , hace entrega, en la documentación adjunta³, de su SOLUCION propuesta para **BiGS**.

Mr./Mrs. with ID.n^o of legal age, and domiciled in , submits, attached to this document⁴, his/her SOLUTION for **BiGS**.

La solución propuesta afecta a las siguientes necesidades⁵:
The proposed solution concerns the following functionalities⁶:

Seleccione la necesidad para la que presenta **SOLUCION** / Select the functionalities for which the **SOLUTION** is submitted

Área de actuación 1 / Work Package 1:

Análisis y prototipado

Analysis and prototyping

Área de actuación 2 / Work Package 2:

Gestión de contenidos

Content management

Área de actuación 3 / Work Package 3:

Integración, semantización y explotación de datos sobre la plataforma web

Integration, semantic web and data exploitation

Área de actuación 4 / Work Package 4:

Buscador inteligente

Intelligent search engine

| | |
|--|--|
| Número de páginas adjuntas ⁷ Number of attached pages ⁸ | |
|--|--|

³ La SOLUCIÓN se deberá entregar adjunta al presente formulario.

⁴ The SOLUTION must be submitted attached to the present form.

⁵ En caso de presentarse a varias necesidades conjuntamente, marcar con una "X" cada una de ellas, e indíquese este hecho, de manera clara, dentro del documento de la SOLUCION.

⁶ Should different functionalities be submitted together, mark with an "X" each of them and, point out this fact, clearly, inside the SOLUTION document.

⁷ Indicar el número de páginas, sin incluir la presente.

⁸ Write the Lumber of pages, without including the present one.