

TERMS OF CONDITIONS FOR THE TENDER

Of the design, construction
and installation of a low-
energy urban wastewater
treatment plant

LIFE AMIA

LIFE18/ENV/ES/000170



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1. INTRODUCTION

The European LIFE AMIA project (LIFE18/ENV/ES/000170), funded by the European Commission under the LIFE program and currently under execution, aims to implement a technology for urban wastewater treatment with low energy consumption. To this end, it is intended to combine a first anaerobic-aerobic treatment of wastewater followed by a removal of nutrients by microalgae and finally a reduction of persistent organic microcontaminants and pathogens through advanced oxidation process (AOP). Once the technology is implemented, the reuse of water for its application in agriculture will be validated, as well as the microalgae and sludge generated as fertilizer.

The project will serve to promote water reuse strategies in Europe and minimize water stress, a challenge established by the European Commission. The potential for the reuse of treated wastewater as an alternative source of water supply is currently recognized and integrated into international, European and national strategies. The United Nations Sustainable Water Development Goal (SDG 6) specifically aims at a substantial increase in recycling and safe reuse at a worldwide level by 2030. Water reuse is a top priority area in the Implementation Plan Strategic of the European Innovation Partnership on Water, and the maximization of water reuse is a specific objective in the Communication "Plan to safeguard the water resources of Europe" [[https://ec.europa.eu/environment/water/reuse .htm](https://ec.europa.eu/environment/water/reuse.htm)].

The project, coordinated by FACSA, dedicated to the integral water cycle, is made up of 6 partners from 3 different nationalities: Spain, Cyprus and the United Kingdom. LIFE AMIA will be implemented in the Wastewater Treatment Plant (WWTP) of Alhama de Murcia, in the Region of Murcia.

In this context, FACSA, is responsible for designing, building, operating and monitoring a wastewater treatment and regeneration system by combining the technologies described above that will allow the reuse of water obtained in agriculture.

2. OBJECTIVE OF THE TENDER PROCEDURE

The purpose of this document is to determine the conditions that will govern the procedure for contracting the design and construction of the wastewater treatment plant that combines anaerobic and aerobic treatment. These works include the design of the installation, its construction, transportation and installation in the WWTP of Alhama de Murcia. These works are part of the European LIFE AMIA Project (LIFE18/ENV/ES/000170).

The activities to be carried out to achieve the goals of this tender are:

- Design of the PID of the installation together with FACSA
- Construction of the water treatment pilot plant
- Installation in the WWTP of Alhama de Murcia

3. GEOGRAPHICAL SCOPE AND LOCATION

The pilot plant will be installed in the WWTP of Alhama de Murcia, located in Las Salinas Industrial Park, Calle Prado 35, CP 30840, Alhama de Murcia (Murcia, Spain).



Figure 1: Alhama de Murcia WWTP

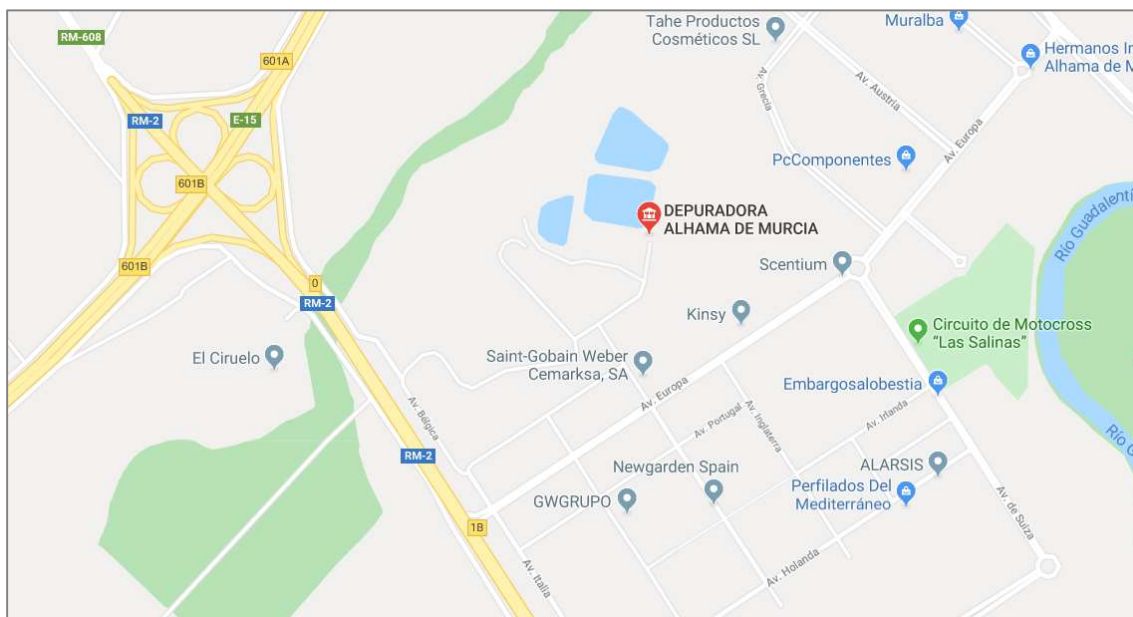


Figure 2: Location of Alhama de Murcia WWTP

4. CHARACTERISTICS OF THE WASTEWATER TO BE TREATED IN THE DEMONSTRATION PLANT

The characteristics of the influent to be treated in the demonstration plant are summarized below.

Table 1: Characteristics of wastewater to be treated

pH	7,4
Conductivity ($\mu\text{S}/\text{cm}$)	3000
COD (ppm)	900
TN (ppm)	100
BOD₅ (ppm)	600
TP (ppm)	25
NO₃-N (ppm)	< 1
NH₄-N (ppm)	60

SO4-S(ppm)	350
TSS (ppm)	280
VSS (%)	86

5. DESCRIPTION OF THE TECHNOLOGY

The demonstration plant will be designed and built for a treatment capacity of 12 m³/d of urban wastewater, with the characteristics indicated above.

- Preferably, the main elements of the plant should be located in a maritime container or similar to be protected from weather conditions and, in addition, allow subsequent location transfer, if necessary.



Figure 3: Possible locations of the demonstration plant

- The reactor or reactors must be constructed using AISI 316 stainless steel.
- Level sensors must be placed so that no overflow is suffered. In addition, the pH, temperature, dissolved oxygen (in the aerobic zone) and the oxidation-reduction potential (in the anaerobic zone) should be monitored.
- Compressed air equipment will be installed to provide aeration in the aerobic treatment.



- A biogas flowmeter must be installed to evaluate its production. It will also be necessary to install a condenser prior to the biogas flowmeter to avoid condensation problems.
- Flowmeters will be installed to control the flow of water that circulates through the installation.
- The installation must include the necessary pumps to circulate the wastewater and the generated sludge. As well as the necessary pipes, valves and connections. In addition, the installation of reagent dosing pumps should be considered.
- The installation must have a control panel with a computer and a minimum screen of 15.6 inches.
- The electrical and plumbing installation will be included in the budget.
- The company that installs the demonstration plant must provide the granular sludge for the anaerobic system. As well as carriers or other elements that it deems appropriate for the proper functioning of the treatment of purification.
- An operation and maintenance manual of the installation, as well as the layout, must be provided.

Technical clarifications may be requested, by arranging a telematic meeting with Elena Zuriaga at: ezuriaga@facsa.com.

6. TOTAL BUDGET

The maximum total budget is set at one hundred seventy-two thousand euros (172,000 €).

7. PAYMENT METHOD

Payment will be made in three instalments, 45% when signing the contract, 45% once the demonstration plant is installed in the WWTP of Alhama de Murcia and 10% three months after start-up of the plant, as a guarantee, when it is verified that all elements work correctly. Payment will be made by bank transfer within 30 days of receipt of the invoice.



8. AWARD PROCEDURE

In accordance with the current legal framework, FACSA publishes this tender with the objective of defining the content of the current offer.

Once the offers submitted are received, FACSA will select the offer that obtains the best valuation based on different criteria that will be calculated as follows:

- 40% best value for money
- 30% Technical capacity
- 25% Know-how and experience in this technology
- 5% Suitability to the tender and its objectives

The following factors will be taken into account in the evaluation of the above scale criteria:

- Delivery term
- Delivery conditions and guarantees
- Technical specifications of the goods offered and degree of adaptation to the needs specified in this tender

The deadline for the receipt of offers will be 15 days from the publication of this tender (5th February 2020). The resolution of this tender with the result of the awarded company will be made within 5 days after the deadline for the submission of offers (11th February 2020). The signing of the contract with the awarded company will be carried out within 10 days after the resolution (until 21st February 2020).

Offering companies should include the documents they consider necessary to demonstrate compliance with the abovementioned criteria, in addition to the documents indicated in Annex 2 and Annex 3 (the confidentiality agreement will be provided to companies that show their interest in participating in the tender).

9. NON-COMPLIANCES

Those elements that do not comply with the qualitative and quantitative characteristics defined in the descriptions of the unit prices included in the bidder's budget, in the determinations of this specifications or in the specifications of the layout jointly designed with Facsa, will be considered as defective or non-project-adjusted elements. Facsa may determine the corrections to be made.



The expenses produced by the corrections to be made, will be assumed by the selected company, and will not imply an increase in the contract term.

Facsa may request the selected company as many operations as it deems necessary to verify the correct execution of the works.

10. PROTECTION OF PERSONAL DATA

In accordance with Regulation 679/2016/EC of the European Parliament and of the Council of April 27, 2016, as well as the applicable national regulations on data protection, we inform you that the personal data of contact persons, signatories, as well as personnel of the bidding companies with registered office specified in the proposal, and of SOCIEDAD DE FOMENTO AGRÍCOLA CASTELLONENSE, S.A., with registered office in C/ Mayor, 82-84, CP: 12001 Castellón, will be treated by the opposite party in order to manage the relationship between the parties and in accordance with the execution of the provision of services. Such interested parties may exercise their rights of access, rectification, deletion, opposition, limitation of processing, portability and no longer be subject to automated individual decisions, addressing the addresses of the bidding company and C/ Mayor, 82-84, CP: 12001 Castellón, or through the email addresses to be specified in the proposal or info@facsa.com, respectively with the reference "Protection of Personal Data".

Such personal data will be kept by both parties, as appropriate, once the contractual relationship, duly blocked, is terminated for its provision to the competent Public Administrations, Judges and Courts or the Fiscal Ministry during the period of limitation of the actions that could derive from the relationship between the parties and/or the legally established conservation periods. The parties will proceed to the physical deletion of these personal data after set deadlines.

Likewise, interested parties are informed that they may file a complaint with the Spanish Agency for Data Protection in those cases in which they deem it appropriate.

11. ANNEX 1: REQUIREMENTS CONCERNING LABOR RISK PROTECTION

Given the nature of the pilot plant object of this document, and in compliance with the duty of coordination established in RD 171/2004 that develops art. 24 of Ley 31/95 de "Prevención de Riesgos Laborales", all subcontracted companies must meet the established requirements:



1. All workers of the different participating companies will have to be affiliated with Social Security and up to date in the payment of the corresponding fees.
2. The winning company must be aware of its obligations as established in Ley 31/95 de Prevención de Riesgos Laborales, and in order to prove it, they must comply with the documentary requirements of the contracting company.
3. All workers of the different participating companies will accredit the appropriate training and information based on the work to be done (work at height, etc.)
4. All the workers of the different participating companies will prove their medical aptitude for the performance of the contracted works

In turn, the contracting company reserves the possibility to request some other requirement that it deems appropriate depending on the evolution and development of the work.

12. ANNEX 2: CONFIDENTIALITY AGREEMENT

A non-disclosure agreement (NDA) will be signed with each of the companies that present their offer in response to this specification. The company FACSA will provide the template of the agreement to be signed.

13. ANNEX 3: LETTER OF EXPRESSION OF INTEREST AND DECLARATION ON EXCLUSION CRITERIA

The models to be presented by the bidders are attached below.



Letter of Interest

(To be completed and signed by the Bidder)

The undersigned

Name of the company : _____
Legal address : _____
Registration number : _____
VAT number : _____

Hereby presents this Letter of Interest to express the intent of the company mentioned above to participate in the preselection procedure concerning the procurement of the design, construction and installation of a urban wastewater treatment demonstration plant of low energy consumption, **LIFE AMIA (LIFE18/ENV/ES/000170)**.

I, the undersigned, acknowledge that the Terms & Conditions contained in the *Call for Expression of Interest* constitute a basis for the preselection procedure and that they are mandatory for the resultant Contract.

I, the undersigned, also acknowledge that the Purchaser is solely responsible for rendering decisions in matters of interpretation on all Terms & Conditions.

Consequently, on behalf of the company mentioned above, I, the undersigned, agree to accept the mandatory Terms & Conditions set forth in the *Call for Expression of Interest*.

Full Name

Date

Signature of Legal Representative



Declaration on Honor on Exclusion Criteria

(To be completed and signed by the Bidder)

The undersigned

Name of the company : _____
Legal address : _____
Registration number : _____
VAT number : _____

Declares that the company mentioned above is not in any of the following situations listed below:

- a) has been sentenced by final judgment on one or more of the following charges: participation in criminal organization, corruption, fraud, money laundering;
- b) is in situation of bankruptcy, liquidation, termination of activity, insolvency or arrangement with creditors or any like situation arising from a procedure of the same kind, or are subject to a procedure of the same kind;
- c) has received a judgement with res judicata force, finding an offence that affects their professional integrity or serious professional misconduct;
- d) does not comply with its obligations as regards payment of social security contributions, taxes and dues according to the statutory provisions of its country of incorporation.

I, the undersigned, understand that Contract may not be awarded if during the preselection procedure the company mentioned above:

- is subject to a conflict of interest;
- is guilty of misrepresentation in supplying the information required by the Purchaser as a condition of participation in the preselection procedure or fail to supply this information.

Full Name

Date

Signature of Legal Representative