

Lantania will carry out the expansion works of the Vinalopó valley (Alicante) treatment plant

- A Miteco project of 9.6 million euros is awarded to adapt the current infrastructure

Madrid, 29 March 2023. Lantania begins work to upgrade the Vinalopó Valley wastewater treatment plant (WWTP), located in the municipality of Elda (Alicante), for the reuse of its effluent. The Secretary of State for the Environment of the Ministry of Ecological Transition (Miteco) has awarded the company, in a joint venture with Torrescamara, a contract of 9.6 million euros including taxes for the conditioning of this infrastructure within the framework of the Recovery, Transformation and Resilience Plan of the Spanish Government.

The Infrastructure, Water and Energy Group will adapt the WWTP and will also carry out the works for a new access from the Lacy industrial estate that will prevent vehicles from having to cross the urban centre of Elda. The works are expected to last 21 months. The Vinalopó valley treatment plant was built in 1981 and expanded in 1998. The facility receives the wastewater generated in the municipalities of Elda, Petrer, Monóvar and Sax, and belongs to the Medio Vinalopó region.

The WWTP serves a population of 110,000 inhabitants. It is designed to treat 24,000 m³/day, however, currently the average flow treated is 12,000 m³/day. The capacity for the treatment of BOD (biological oxygen demand), COD (chemical oxygen demand) and SS (solids in suspension) is satisfactory, the current problem is the treatment of ammonia, where the maximum value of 7 mg/l is not reached. The fundamental objective of the improvements in the WWTP is the elimination of nutrients, nitrogen and phosphorus.

The works will consist of the water line in a new relief and flow control chamber where the water is received from all the collectors. The equipment will be replaced with newer models, grilles and exporting screws. A new distribution chamber for the two lines of biological treatment and the demolition of the current primary clarifiers. Regarding the biological reactor: the volume of each reactor is 1,385 m³ for the anoxia reactor and 3,180 m³ for the aerobic reactor in each line. Each pool will have 1,200 units of high-performance diffusers with EPDM membranes. In addition, the secondary clarifiers will be maintained by adding a pump and the blower equipment will be replaced by another five units of magnetic levitation blowers.

The existing sludge line will be maintained, but the gravity thickener will no longer receive primary settling sludge, but secondary settling sludge. Regarding tertiary treatment, there will be two lines of 10-micron fabric filters with a treatment guarantee greater than 15mg/L of suspended solids, followed by two ultraviolet ray sterilisation equipments.

About Lantania

The Lantania Group builds large transport, water and energy infrastructures. It develops sustainable solutions that improve quality of life and promote a cleaner and healthier world. Lantania has a portfolio of work in progress of over 550 million euros and assets of over 160 million euros. The expansion of the Guadalajara hospital, the construction of the Almodévar dam (Huesca) and the San Jorge solar plant (Castellón), together with the electrification of the first section of the high-speed rail line to Extremadura, are some of Lantania's outstanding projects. The company is already present in Colombia, the United States, Saudi Arabia, Algeria, Morocco, Poland, Slovakia and Bulgaria.

María Cupeiro

maria@stakeholders-pr.es

677 39 72 53

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