

INSTALLATION, SUPPLY AND COMMISSIONING OF TWO INTELLIGENT BICYCLE PARKING MODULES IN LA RINCONADA,C01,I01

La Rinconada Town Hall



1.MODULE NEXT TO THE TOWN HALL OF LA RINCONADA

1. INTRODUCTION- SUMMARY

La Rinconada Town Council has launched an ambitious project to install smart parking facilities for bicycles and personal mobility vehicles (PMVs), framed within its sustainable urban development strategy and funded by the European Union through the Recovery, Transformation and Resilience Plan. This project is part of the Sustainable Urban Mobility Plan of La Rinconada and the Implementation Plan of the Urban Agenda of La Rinconada.

This project arises as a necessity to improve air quality in the municipality, promoting the decarbonisation of urban mobility and efficiency in mobility planning. The installation of these car parks is part of a series of initiatives that include the creation of green infrastructures and the extension of the network of cycle lanes, all funded through the Integrated Sustainable Urban Development Strategy (EDUSI) and the first call for Low Emission Zones (ZBE).

The contract includes the supply, installation and commissioning of two modules for the secure parking of bicycles and VMPs, each with a minimum capacity of 10 spaces and charging points per space. The modules will be installed in two key locations: one in the centre of San José de la Rinconada, next to the indoor swimming pool, and the other at the entrance to the Town Hall.

2. CHARGES

PHASE I. The basic tender budget for the supply, installation and commissioning of two intelligent parking modules for bicycles and personal mobility vehicles amounts to the following amount:

- Tender base budget PHASE I: 70 000,00 €.
- VAT amount: 14 700,00 €.
- Tender base budget (VAT included): 84 700,00 €.

PHASE II, The base tender budget for management support, maintenance and annual cleaning of the smart car parks:

ANNUAL INSTALMENTS PHASE II	SUPPORT, MAINTENANCE AND CLEANING	ANNUAL AMOUNT EXCLUDING VAT	VAT AMOUNT	ANNUAL AMOUNT WITH VAT
1º	12 months	2 455,00 €	515 55 €	2 970,55 €
2º	12 months	2 455,00 €	515 55 €	2 970,55 €
3º	12 months	2 455,00 €	515 55 €	2 970,55 €
4º	12 months	2 455,00 €	515 55 €	2 970,55 €
TOTAL	48 months	9 820,00 €	2 062,20 €	11 882,20 €

TECHNICAL ADVICE FOR INTELLIGENT BICYCLE PARKING:

- Tender base budget: 4 000,00 €.
- VAT amount: 840,00 €.
- Tender base budget (VAT included): 4 840,00 €.

Therefore, the total investment in this action, corresponding to PHASE I and two years of MANAGEMENT SUPPORT, MAINTENANCE AND CLEANING, amounts to 93 610,00 €, of which 100 % has been financed by the Next Generation-EU Funds. It is important to note that the VAT, amounting to € 16 571.10, has been fully financed by the Municipality of La Rinconada.

3. COMMUNICATION MANUAL

According to Article 9 of Order HFP/1030/2021 of 29 September 2021, and in order to ensure the provision of targeted, consistent, effective and proportionate information to multiple audiences, including the media and the public, the Member State shall:

- Have a strategy at Member State level to raise awareness and ensure recognition of the contribution of the RRM to Europe's recovery and in particular to the double green and digital transition.
- Establish and maintain a single website providing information on the RRM and related projects and communicate the specific web-link to the Commission.

- Ensure that final recipients of Union funding under the RRM recognise the origin and ensure the visibility of Union funding.

The material for the communication and awareness-raising operations on the operation implemented was provided for in the contract, co-financed by the Next Generation-EU funds and disseminated by the Municipality of La Rinconada.

It should be noted that all communications included the elements required by the reference regulations: the European emblem, the reference to the Next Generation-EU co-financing and the slogan "Recovery, Transformation and Resilience Plan". In addition to being included in this report, these elements also appear in the advertisements, tender documents, videos, invoices,

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2. LA RINCONADA TOWN HALL WEBSITE (EUROPEAN FUNDS)

Link: : <https://www.larinconada.es/fondos-europeos/next-generation/periodo-2020-2026/proyectos-prtr/palanca-8-nueva-economia-de-ciudades-y-politicas-de-empleo>

4. TECHNICAL SPECIFICATIONS

The modules shall comply with a number of technical characteristics, among which the following stand out:

- Capacity for at least 10 bicycles or VMPs per module.
- Structure resistant to vandalism, corrosion and adverse weather conditions.
- Motorised opening and closing system with motion sensors for greater security.
- Internal video surveillance to monitor access and use of the car park.
- Integrated solar panels to power charging points, opening systems, lighting and video surveillance.
- User-friendly interface with vandal-proof keypad and push button, as well as compatibility with mobile devices for easy access.

The management and control system of the modules will allow:

- Pre-registration of users and management of registrations and cancellations.
- Access by personal code or mobile device.
- Real-time monitoring of car parks and collection management.
- Notification of alarms and breakdowns via a mobile application and website dedicated to the service.
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5. LOCATION OF THE PARKING FACILITIES

The initial locations selected for the installation of the smart parking modules in La Rinconada are strategic, seeking to maximise their accessibility and use by citizens. One module will be installed in the centre of San José de la Rinconada, specifically next to the indoor swimming pool, an area with a high traffic of people and sporting activities. The second module will be located at the entrance of the Town Hall, a neuralgic point of the municipality that concentrates both administrative and commercial activities. These locations have been chosen after an exhaustive study, in order to facilitate safe and efficient access to the car parks, encouraging the use of bicycles and VMP in the daily life of citizens and contributing to the reduction of motorised traffic in the city centre.



3. LOCATIONS OF THE BICYCLE RACKS

However, after a few months of use, it was decided to move the module located at the entrance of the Town Hall to a new location next to the La Rinconada train station. This change was made due to the low usage of the module in its original location and numerous requests from citizens. The requests asked for such a module to be installed near the station, as Renfe's ban on electric scooters on its trains made it difficult for citizens to use public transport. As this location was already planned for a later stage, the City Council decided to bring forward the installation of the module there to benefit citizens and promote sustainable transport in the municipality of La Rinconada.



4. NEW LOCATION NEXT TO LA RINCONADA STATION

6. INNOVATIVE ASPECTS AND ENERGY SAVINGS

The project to install intelligent parking facilities for bicycles and personal mobility vehicles in La Rinconada will have a significant positive environmental impact and will contribute significantly to energy savings. Each module will have solar panels installed on its roof, which will provide the necessary energy for charging points, opening systems, lighting and video surveillance. This renewable energy source not only reduces dependence on the conventional electricity grid, but also minimises CO₂ emissions, contributing to climate change mitigation. In addition, the system design ensures efficient energy consumption of less than 1W per device, optimising the use of resources and reducing environmental impact. Compliance with the DNSH principle ensures that the project will not cause significant harm to environmental objectives, thus supporting a more sustainable and environmentally friendly urban mobility.



5. PHOTOVOLTAIC PANELS ON THE ROOF OF THE MODULE NEXT TO THE INDOOR SWIMMING POOL

7. RESULTS



6. INSTALLATION OF THE MODULE NEXT TO THE TOWN HALL



8. INTERIOR OF THE INTELLIGENT CAR PARKS NEXT TO THE TOWN HALL.



9. INSTALLATION OF THE MODULE NEXT TO THE INDOOR SWIMMING POOL



10. ADJUSTMENT OF THE MODULE TO THE PRE-EXISTING FENCE



11. PARKING AT THE TRAIN STATION



12. LOGO