

# ESIG APPLICATION FORM

**Company name:** CAMPI Y JOVE S.A.

**Project title:**

“A project for a responsible and reliable solvent’s distribution”.

**Brief description of project:**

An evident case of a global step forward over safety, health and environmental issues in a solvent’s distributor company.

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**Award category you are applying for:**

Overall winner



## Details of the project

### Improvements:

Global improvements to become a model and reliable solvents distributor with:

#### · Customers:

- Technical advising visits.
- Homologated packaging process.
- Customised bulk deliveries.
- Drum re-collection service provider.
- Drum recycling control.

#### · Suppliers:

- Regular HSE audits and training courses.
- Responsible Logistics Services (Drumming/“Taylor made” Blending).

#### · Facilities:

- Strategic re-location.
- 100% collection system insurance.
- Tank farms equipped with dedicated pneumatic pumping system.
- Perolo safety system for drumming /permanent earthing device insurance.
- Fire prevention system and own-trained fire brigade.
- New laboratory fully equipped with latest technology.
- Continuously updated security control plan.

#### · Staff:

- Constant HSE training for the entire staff / organisation.
- Programmed safety evaluations and appropriated health check.

#### · Society:

- Adhesion to the Progress Commitment (Responsible Care).
- Total transparency and collaboration with public institutions / authorities.

**Investment / Project cost:** 13,5 millions €

## **Esig Award: A project for a responsible and reliable solvent's distribution**

Campi y Jove is one of the most experienced suppliers of chemicals on the Spanish market. It is a family owned company created in 1923 and currently managed by the third generation.

Five years ago, the company management started a Strategic Plan to reach the highest possible development level within the solvents market, in oxygenates and also hydrocarbons aiming for a safer and more responsible distribution. This Strategic plan is based on 5 basic points:

Built up model facilities to handle solvents with a design that goes beyond the current security standards (respect of the environment, the future generation, workers health.).

Create a responsible human team, that from the ~~corrial~~ department, up to the warehouse operators, including the logistics and HSE department, are focused on passing on the latest information on the best way to handle solvents safely to the entire supplying chain.

Achieve the recognition of this project by the national and international organisations and carry out a close co-operation with the local public institutions.

Full commitment beyond the current HSE standards.

Offer to Spanish customers a wide range of ~~toplity~~ solvents, which cover all their needs and reach collaboration agreements with the most important solvents producers in Europe.

After five years, the situation of those objectives is as follows:

### **1) CUSTOMERS**

Nowadays, Campi y Jove offers a range of more than 120 solvents to its customers, which represents more than 300 references depending on the type of packaging.

For a safer and more efficient distribution, Campi y Jové has developed a new packaging policy based on the use of recycled drums when the application, the type of industry or the product features make it possible. Campi y Jové offers to all customers an empty drum collection ~~servi~~Theses packaging, once recycled by an authorised company, are in perfect condition to be used again.

In this policy implementation, has also been taken ~~into~~ account the various homologations required by each single type of packaging. Campi y Jove, for additional security measures always uses packaging homologated for ADR for all type of product and in case of flammable products only metal drums with EX homologation.

Another very important delivery channel boosted by Campi y Jové has been bulk deliveries for customers who have small tank storage facilities.

Given the great risks that entail such operations, we ~~are~~ responsible supplier the obligation to ensure that solvents are handled on a safe way. Campi y Jové is therefore paying regular technical visits to advise customers on the latest safety regulations and apply this type of operation only to customers who have the suitable facilities.

Still within this safety promotion and drums recycling policy, we acquired a wide range of different packaging: 500 stainless steel IBC, 316L, 1000 and 1200 litres. Theses ~~type~~ packaging combines two important factors: the quality of deliveries as well as the transport security. Furthermore, thanks to their design they guaranty a perfect emptying and this avoid generating waste.

Those packaging are also are provided with quick connection type: CAM LOOK that avoids risk during handling and above all guaranty a good earthing device to avoid static electricity risks.

Depending on the features of each product, Campi y Jove offers to its customers more than 20 different type of presentations or packaging.

Customer's advice is an important part of the service offered by Campi y Jové. In that respect, we visit customers interested in this type of service in order to improve their working system and their facilities and this way ensure a responsible use of chemicals.

## 2) SUPPLIERS

We have also set up regular audits and training courses with our main suppliers in order they can provide us with the best possible HSE knowledge and transmit it to our staff and customers.

Likewise, Campi y Jove offers to its suppliers the possibility of giving specific logistic services on solvents on a safe and responsible way such as the drumming to selected strategic partners and the development of Taylor-made product blending and formulations.

## 3) THE FACILITIES

One of Campi y Jove most important challenge has been to adapt it's facilities to improve the safety and reach the standard set by the managing team. This has been developed in two strategic geographical areas: Barcelona and Madrid.

In Barcelona, the first step has been to move the two warehouses previously located into city centres to a single one with a strategic location.

Most of the stored products being hazardous, the choice in the facilities location has been a key factor for this project. The following points have been taken into account:

- ✓ The absence of urbanisation within 2 km.
- ✓ No possibility that in the future incompatible activity can settle within 2 km from Campi y Jove's facilities.
- ✓ Have a road and communication network which allow an easy access from the main motorways to the industrial area.
- ✓ Have a different communication network that avoids the traffic of dangerous materials through urban areas.
- ✓ Have a growing capacity in line with the Strategic Plan forecast.

Finally, Campi y Jove acquired 100.000 m<sup>2</sup> of land near Barcelona and 12.000 m<sup>2</sup> near Madrid. Both fulfil all requirements. Firstly, Barcelona's warehouse has been built.



This warehouse currently uses about 40% of the land available, leaving close to 60.000 m<sup>2</sup> for future extensions. 25.000 m<sup>2</sup> of the 40.000 m<sup>2</sup> are used for solvents. This implied an investment of 10 millions Euro in the last five years.

Thereafter and following the same strategy and requirements, has been built Madrid's warehouse. This warehouse is four time smaller than the one in Barcelona, and implied an investment close to 2,5 millions Euro. This warehouse allows an optimum delivery service to central and southern Spain.



The most important points to handle solvents in the installation are the following:

- Tank farms: Totally 70 storage tanks are of stainless steel have been built at different stages. Their capacity varies between 36 and 85 m<sup>3</sup> and each one is dedicated to a specific solvent. Each one is equipped with a fire preventing system (Nitrogen pat/ dry air)

There is a project under way to install 10 new tanks and a new drumming line by the end of 2002 with of an investment forecast of 1 million Euro.

- A collection system for big spillage. 100% of the warehouse working area, including internal path, is connected to a big underground tank. This tank allows the collection of every kind of spillage. This system has been designed to prevent a possible emergency situation and has the capacity to contain 100% of products in stock (both drummed and in bulk), 100% of the water which could be used in case of fire and also the cisterns that could be working at the moment of the accident. The installation can retain spillage up to 6.000 m<sup>3</sup>.

As precautionary measure, we collect 100% of the warehouse interior internal path. This large quantity of rainwater is analysed to check the absence of any possible type of pollution.

- A collection system for small spillages for every risky area (drumming, loading and unloading area) which allows the spillage clean up before it spreads and then send it to an agent for its treatment.
- A fire prevention system designed for an installation of a size twice as big as the present one, with a water reserve of 500 m<sup>3</sup> and the possibility to flood with foam the most risky areas. The type of foam has been selected for its optimum efficiency and its environment friendly qualities. This fire prevention system is put to the test with regular simulation. These simulations allow checking the staff efficiency and co-ordination. Campi y Jové has its own fire brigade that allows a fast and efficient action in case of fire.
- Pneumatic pumping system. Each tank has its own pipe and a pump dedicated to the loading and unloading. This is to avoid the cleaning of those facilities, which could result in a risk of contamination and also would generate wastes. The installation of electrical devices on the tanks design and the pumping systems has also been avoided, this is to avoid those installation to be flooded with solvents in case of spillage. A pneumatic by-pass system has also been installed to avoid flexible connections, decrease the operators handling and risk of spillage.



- A covered loading and unloading area, which allows the operation of five cisterns at a time.
- Three drumming lines for solvents able to fill 150 tones per day into drums and IBC.

These lines are especially designed to drum flammable products. They also minimise the four risks that according to our criteria are the most important and are the main cause of accidents during the drumming operation.

- Splashes: There is a safety screen separating the machine operator from the drumming area and protect against splashes.
- Vapour inhalation: Facilities are provided with a gas extraction system that eliminates vapours before they can even be inhaled by the machine operator.
- Fire hazard to due a faulty electrical system: The entire electrical installation is homologated EX.
- Fire due to sparks generated by static electricity: The automatic drumming system is connected to a system measuring the potential between the piping system and the packaging (Type “Perolo”). This system ensures that if the packaging is not properly set the drumming can not be carried out.

The new drumming line forecasted to run by the end of the year will also meet all the safety standards mentioned.



- More than 16.000 m2 of storage premises is dedicated to chemicals only, 7.000 m2 of them are dedicated to flammable products.
- Several blending facilities. Among them, a blending system in batch with a capacity of 25 tones and a continuous one with mixing capacity of 50 tones per day.
- The own laboratory is fully equipped to control all solvents quality and their blending (Chromatography, KF, IR, etc).



- Premises safety control. For better safety Campi y Jove has installed a video and camera security system and has contracted a safety service company. This highly qualified staff is present on the site 24 hours a days, 365 days a year. This staff has also been trained to face all specific risks related to chemicals.

#### 4) THE STAFF

More than 25 employees from the commercial department, logistics department, the HSE and the warehouse are dedicated to the development of this project.

The HSE Department is responsible for continuous training of the entire staff. They make annual training plans, taking into account the new HSE legislation that have been published and the most common incidents/accidents according to the internal statistics.

A regular health check is also available for workers in contact with solvents, including VOC concentration peaks measurements and the appropriate medical health check, established on a regular basis.

Close to our warehouse also exists an official training institute for fire brigade to which our staff can attend and be trained doing real incident simulations. Our aim is to work every day closer to this institution.

In this way, we managed to have a professional team, allowing a smooth link between manufacturers and final customers, granting that the HSE information is passed on to the medium and small Iberian companies

#### 5) SOCIETY & CERTIFICATIONS

Campi y Jove has been working hard to get external certifications/ audits for this project, which could help us to improve and reach more ambitious projects and better performance.

We have joined the Responsible Care Commitment program and also have the following certifications:

- ◆ ISO 9002 certification.
- ◆ ISO 14000 will be certified by the end of this year.
- ◆ We plan to apply for the ESAD audit.

This project reflect with facts the improvement and continuous Campi y Jové commitment and awareness of safety, health and environmental issues for a responsible solvents distribution.