

**Search for a Spanish Partner for a
Bilateral R&D Project (this document will be shared with potential Spanish
companies)**

Organization: Technical center of plastics and rubber – CTPC - Morocco	
Date of Request:	13/04/2020
Company name:	Technical center of plastics and rubber CTPC (sub-contractor of Amal Bandes plastique ABP a Moroccan company specializing in Plastic Pipe Systems, Plastic Wrapping and Packaging, Environment and specially Conversion of plastic materials into PVC, PE, PPR)
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SECTION 1: Your Company Profile

(Please give brief / to the point explanations. For more explanation on any point below, you may add a short paragraph as an annexure, with this document.)

Business Sector	<p>The CTPC is a subcontractor of a Moroccan company specializing in tea production,</p> <p>The main activities of the technical center are</p> <ul style="list-style-type: none"> • Recycling, • Packaging, • Plasticulture • Piping systems, • Automotive, • Aeronautic
Company mission or core functions	<p>The aim of CTPC is to strengthen the development and technological integration of plastic industry. Accredited according to the ISO/IEC 17025 standard, the CTPC is organized in the form of a structure of competences and services specialized in :</p> <ul style="list-style-type: none"> • Tests & Analyses (dimensional, mechanical and rheological, chemical / physico-chemical ...) • Product Certification and Inspection ; • Specialized Training & Technical Assistance ; • Technological & normative watch; • Metrology & Calibration; • Feasibility study and development of methods and studies of collective interest;

	<ul style="list-style-type: none"> • Study & Expertise; • R & D & Innovation.
Date of establishment	The CTPC, is created in 2005 at the initiative of the Ministry of Industry and the FMP (Moroccan Plastics Federation) with financial support of the European Union
Ownership	A non-profit organization
Total number of employees	30
Number of employees in R&D	4 Engineers 2 Research Associate Professor 5 PhD students
Key products sold or services provided	<ul style="list-style-type: none"> • Developing new products • Implementing new manufacturing processes • Technology Watch • Creating new services and systems
Company core technical competences	<p>Field of competence: research and development on plastic in the field of plastics, energy efficiency, circular economy</p> <ul style="list-style-type: none"> • Experimental Development • Development of normative standards and national reference frameworks • Development of guidelines • Certification • Establishment of technical infrastructure • Applied Research • Evaluation Testing • Modeling
Key R&D programs and activities	<p>National project :</p> <p>Recycling: Sustainable development of plastics recycling project. Recovery of agricultural waste for application in various fields. Reinforcement of the competitiveness of the recycling industry through the valorization of recycled materials (recycling). - Study on the opportunities of setting up a collection and selective sorting unit for recyclable household waste.</p> <ul style="list-style-type: none"> • Plasticulture: <ul style="list-style-type: none"> - Development of a new Moroccan normative and regulatory framework relating to Agricultural Plastic Films and Micro-irrigation pipes • Packaging: <ul style="list-style-type: none"> - Development of a new Regulation on plastic materials and articles in contact with food - Establishment of regulations for packaging control, food safety, preparation of the draft Moroccan standard • Building and Public Works <ul style="list-style-type: none"> - Establishment of a technical infrastructure and development of a normative framework for plastic thermal insulation products for buildings (EMC).
Examples of accomplishments	

- Strategic study on the opportunities for the application of non-woven products in Morocco.
- Development of a normative framework for woven bags within the framework of the implementation of Law 77-15
- Development of a new regulation on PVC materials and products.

- aeronautic

- Strategic study on the opportunities for the application of composite materials in the aeronautics industry in Morocco and establishment of an infrastructure for the control of these materials.

- piping systems

- Development of a national referencing for the qualification and certification of PE pipe welders
- Development of a new Moroccan approval system for the attribution of the ACS sanitary conformity certificate.
- Development of a new Moroccan standard and control infrastructure for polyethylene pipes for underground telecommunication lines

International Project:

- Participation in PRIMA Project :

- Sustainable Mediterranean Greenhouse for smart and safe horticulture - 2019
- GREENHOUSE 2.0 project (2019)

- Participation in H2020 Project :

- A Virtual Marketplace, Toolkits and Analytics for Circularity Economy Strategies VIRTUOUS

Some of the recent publications :

- Patent

“Elaboration of a composite based on recycled plastic string for automotive applications”

- Scientific article

Akkouri N., Baba K., Simou S., Alanssari N., Nounah A. (2020) “The Impact of Recycled Plastic Waste in Morocco on Bitumen Physical and Rheological Properties”. Recent Thoughts in Geoenvironmental Engineering. GeoMEast 2019. Sustainable Civil Infrastructures. Springer, Cham.

Nacer Akkouri, Khadija Baba¹, Sana Simou, Latifa ELfarissi and Abderrahman Nounah, “Recycled thermoplastics modified bitumen improved with thermoplastic elastomer”, E3S Web Conf., 150 (2020) 02015.

Reduce the impact of plastic waste on the environment and save resources by launching studies and researches in this area and developing products based on recycled plastics

Company strategic orientation

SECTION 2: Partner of Interest

(Please provide a brief summary of the prospective partner company or organization. This summary may address some or all of the points below)

Profile of ideal technology partner	A profile specialized in plastic waste recycling (from households, agricultural plastics, industrial plastics ...) particularly PVC. willing to collaborate in order to develop a new product from recycled PVC
Core technological competencies and expertise	Partner who can strength and support the implementation of development and innovation In plastic recycling
Other essential qualifications (e.g.: ownership, track records etc.)	Must have competence to recycle PVC waste and separate it from others components (in order to have a less contaminated recycled PVC to be reused)
If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details	We are looking for partners for our Moroccan company client specializing Plastic Pipe Systems, Plastic Wrapping and Packaging, Environment and specially Conversion of plastic materials into PVC, PE, PPR
Interested areas of collaboration	PVC recuperation, recycling
Specific R&D contribution you are seeking/offering	Offering: <ul style="list-style-type: none">• Developing new products• Implementing new manufacturing processes• Creating new services and systems• Technology Watch



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