

TECO Mobility grant

Beneficiary of the grant- JOSE MANUEL RAMOS SANCHEZ

Home Institution/Company (EU)- SUSTAIN PROGRAMME

Host Institution/Company (INDIA)- ANNA UNIVERSITY, CHENNAI, TAMIL NADU, INDIA.

Period of the stay in India- 15.11.2017 - 16.03.2018



TECO Project

*Technological ECO-innovations for the quality control
and the decontamination of polluted waters and soils*

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Objectives of the project

- THE GENERAL OBJECTIVE OF THE PROJECT WAS TO FIND COMMON FEATURES AND COMPARE THE ACADEMIC AND ON LABORATORY RESEARCH ABOUT MORINGA OLIFERA SKILLS TO DEPURATE AND DECONTAMINATE TURBID WATERS IN RURAL AREAS OF INDIA.
- A COMPARISON WAS DONE BETWEEN PREVIOUS ACADEMIC ACHIEVEMENTS AND THE REALITY, SHOWING ITS SUBUSE IN MOST OF THE RURAL COMMUNITIES OF THIS COUNTRY,
- TRYING TO UNDERSTAND THE FEATURES THAT CAN MAKE A DIFFERENCE IN ITS USE AND TRANSFORMS IT, AS AN ALTERNATIVE TO OTHER PRODUCTS, BASED ON CHEMISTRY BASED ON SYNTHESIS PRODUCTS AS ALUMINUM, AND THAT UNFORTUNATELY HAVE BEEN SHOWN AS HAZARDOUS RAW MATERIALS FOR HUMAN HEALTH AND THEIR LOCAL ENVIRONMENTS.



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Activities carried out during the period of the grant

- About my activities in these months of stay in India I arrived on the 16th November 2017 to Chennai with a very intense previous research about *Moringa Olifera* skills to identify how it could be useful to deperate turbid waters in rural India.
- Consequently and following the academia references and information advices my research started visiting several farms and other communities to identify organic experiences about depurating water with biofloucculants and therefore, their methods of organic agriculture. Interviews were done to key stakeholders and community managers in these farms from November 2017 to February, the 15th, 2018. A final disertation was produced in the last weeks, on a format of an article about this experience, trying to identify and compare academia backgrounds and my own experience. Two other academic articles drafts were released on the basis of a bibliography review on the topic.
- Further information can be found on the mid term and final reports, and consequently, in the articles offered to the general audience, thanks to this experience of field work in India.



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Main outcomes

- My main conclusions are that the use of *Moringa Olifera* have a huge potential to be used as an alternative to the use of aluminium compounds for the depuration of waters in rural sectors of India. Even though that, there is a huge lack of knowledge and skills among the same producers about the skills of the seeds to depurate water and very basic and mostly not connection between the academic activities of the universities and the suppliers, farmers, the industry, and customers.
- Several problems with water residues in India arised on this field work on how to get information about tap water, the quality of local water, which use to be controlled by local agencies, how do they perform tests on water quality, the standards on drinking water and contaminants for the health of people, the use of private wells, bottled water, domestic water treatment in their own homes, and about the possible presence of a specific contaminant in water were evaluated.
- The role that industry performs in the water pollution at a world scale to prevent high levels of water pollution and to incorporate the recycling and eco-friendly industrial techniques were scoped in this period even though the first conclusions are quite disappointing about this role, played in junction with local authorities to offer the cheapest but more contaminant methods to depurate waters in rural and urban areas of India.
- About MORINGA it was important to analyses what variety of moringa do more frequently they use, where are the moringas are collected and the knowledge shown by farmers and producers regarding to the use of seeds powder to depurate waters.
- As previously cited, more work must be done to disseminate these issues among many separated sectors in India. That was the scope of my work, trying to join the academic reviews with spreading this information in farms and companies of India.



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