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COVER LETTER

As a research assistant in chemical engineering, I did my university studies at the University of Antananarivo. During this time, I concentrated my research activities on the valorization of natural products for the potabilisation of water.

I am currently working as a research assistant at the National Center for Environmental Research. I joined the team in 2016 in the Environment and Quality of Life section of the water analyzes section. I have had experiences on the importance of environmental protection especially water quality conservation and resource management. I am also, in my activities, supervising master students for their laboratory work. I have also followed trainings on the drafting method of the project and the scientific journal. Because of these experiences, I am in the process of elaborating researches concerning the qualitative studies and seasonal monitoring of surface waters and underground waters of the city of Manakara, as well as its impact for treatment with Moringa grain. This involves the use of new methods of analysis including statistics, spatial modeling and spatial distribution of different types of water sources.

Of those, as a researcher, the manipulation and knowledge of programs or statistical tools are necessary for the completion of studies and also to have reliable results. Through these experiences and needs, I would like to be part of the team and to take this training. Pending a favorable response from you, please accept Madam / Sir the expression of my most distinguished feelings.

QUALITATIVE STUDIES AND SEASONAL MONITORING OF GROUNDWATER AND SURFACE WATER IN CITY OF MANAKARA, POTABILIZATION BY USE OF MORINGA GRAIN.

Water is a liquid of complex composition whose different constituents react with each other. A contribution of undesirable or toxic element can only be harmful in the short or long term to its quality. It deserves special attention, as it is very much altered and seriously threatened by human activities.

Madagascar is among the 4 poorest countries in Africa in terms of access to drinking water. The stakes are high for Madagascar or the drinkability of the water intended for the household remains a major challenge with a strong disparity between the regions. Generally in Madagascar, considering the costs of JIRAMA drinking water, the majority of populations use groundwater. This study focuses on the cities of Manakara where groundwater and untreated surface water are the main sources of water supply for many households. The objective is to know the physicochemical and bacteriological characteristics of its water sources as well as its sources of vulnerability in order to provide practical and easy solutions for the population. This project also involves implementing Moringa's ability to make raw water drinkable and turn it into a marketable product for everyone.

It is important to make statistical and cartographic studies to distinguish and track the different causes of vulnerability of each study area. Then an education and awareness of the population to teach them the importance of the quality of water for consumption. In the end a publication of the results to serve as a database on the water quality of the southeastern part of Madagascar and for all those who want to study water in this region.

KEYWORDS: Groundwater, surface water, moringa, Manakara

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Details

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Business address : BP 1739, 39, rue Rasamimanana, Fiadanana, Antananarivo, Madagascar

Fields of competence : chemistry engineering, biochemistry

Education and training

2014: D.E.A in Chemical Engineering (Antananarivo Polytechnic School)

2008: Master of Science in Life Sciences

Option: Biochemistry Applied to Food Science and Nutrition (Faculty of Science)

2007: Bachelor's degree in Biochemistry (faculties of science)

2006: DUESS II (Faculty of Science)

2004: DUESS I (Faculty of Science)

2003: Baccalaureate series D (high institution family)

Work experience

April 2016 - present : Research assistant at CNRE in the quality of life and environment department. In charge of the analysis of the nutrients in the water as well as the realization of the intercalibration in the laboratory of water

Training course

February 2018 : Training in geographical information system (QGIS, OpenStreetMap).

July 2018 : Development of quality manual and application to the ISO 17025 in laboratory.

Languages :

Languages	Reading	Writing	Speaking
French	Excellent	Excellent	Excellent
English	Excellent	Excellent	Medium

Others knowledges :

- Bureautics, Internet

Hobbies

Reading, Basketball, swimming