

## **1. Requesting Organization**

**Name:** Associação dos Amigos da Natureza

**Address:** S. Vicente – Cabo - Verde

### **Describe the role/mandate of the organization**

Associação dos Amigos da Natureza (AAN), was created in 1979; formally registered under the National Register of Associations in Cape Verde. AAN is since 1996, part of the Capeverdian NGO Platform.

ANN is working to promote sustainable development and environmental protection; and is fighting against land degradation and desertification, supporting land managers and farm sector to produce in an equitable technique and with no environmental harm; ANN also work on vocational training oriented towards the labour market.

Land degradation is a mayor problem in Cape Verde; in some islands as Fogo, Boavista or Sao Vicente (with high extensions of volcanic land), desertification is one of the main development issues because of its adverse impact on agronomic productivity, the environment, and its effect on food security and the quality of life.

AAN is aiming at minimizing land degradation in association with farmers and local communities of Sao Vicente, by improving and testing new technologies, and training their associated partners in new ways of production concerned with sustainable environment.

AAN's success with farming methods has lead to increased output and the return of many farming enterprises. Farming and horticulture fit together well with the animal waste used on the land and the vegetable waste used to feed the animals.

AAN is playing a vital role in the agricultural community on the island (Sao Vicente). It has already provided important information on animal husbandry and by example is leading the way to a substantial revival. It has an on-going commitment to establishing large areas of trees in a landscape that has almost no natural vegetation left. AAN, over the years, has established over 1500 ha of drought resistant trees and it is within these newly established areas that new horticulture enterprises are now starting.

### **Year of establishment**

Created on 1979

### **Size of organization**

National level organization with main focus on Sao Vicente.

### **Number of staff:**

5 staff members and 150 volunteers at the main Office in Sao Vicente, and 250 volunteer members at national level.

### **Field of activity:**

Environment/ Development/ Agriculture/ Vocational Training/ Social

### **Other pertinent information:**

Prize Global 500 from UNEP 1989

**Is your organization assisted/funded by other organizations/companies:**

# Request for a Spanish University Volunteer

TOR # 1 y 20

ANN has been financed among others by the Ministry of Agriculture, Britain Embassy, Institute of Employment and Professional Training, National Program to Fight Against Poverty, Shell Cap Verde.

## Assignment Terms of Reference

**Assignment title:** Reinforce the capacity of the land managers (Farms) of Sao Vicente island, by training selected trainers, in land management conservation and hydroponics horticultural production to improve MDG 7 in Cape Verde

### Preamble :

This post is a United Nations Volunteers programme assignment and based on the values of free will, commitment, engagement and solidarity, which are the foundations of volunteerism. Volunteering brings benefit to the individual volunteer. It makes important contributions, economically, as well as socially. It contributes to creating social cohesion and capital, through helping to build trust and reciprocity among citizens.

The United Nations Volunteers is the UN Organization that supports sustainable human development globally through the promotion of volunteerism and mobilization of volunteers. It serves the causes of peace and development through enhancing opportunities for participation by all peoples. It is universal, inclusive and embraces volunteer actions in all its diversity.

Volunteerism is diverse and is embedded in all cultures and traditions. In this context, as a United Nations Volunteer you are encouraged and expected to relate to local volunteerism and to be identified with the concept. You are expected to regard your national colleagues as peers and together uphold trust as volunteers among yourselves and within the communities and the organization you are assigned to.

## Detailed Terms of Reference (Please describe in as much detail as possible the services required from the University Volunteer(s) and how their contribution will fit into the organization's plans.)

Environment is one of the main goals to achieve in Cape Verde. After several years of dryness, the country needs special and crucial efforts to fight against land degradation and continuous disappearance of environmental resources.

Horticulture in São Vicente is in decline and the Capeverdean NGO of Amigos da Natureza (AAN) has taken the initiative to consider the future possibilities in different context. The major limiting factors that are contributing to decline horticulture are wind and water quantity and quality. With care, the effects of wind could be reduced but those of water quantity and quality are harder to solve.

The over-riding problem of water shortage and its high salt content is making any expansion very slow to sustain. AAN has adopted the policy of seeking help at this critical stage.

The average rainfall is 100-160mm/year falling in August to December. This level of rain is not sufficient to maintain the underlying water table. This means that wells have to be dug deeper to reach water. Wells of 20-40 m deep are common. At that depth many areas have hard volcanic rock that makes hand digging impossible. Wells are then abandoned.

As the water becomes deeper the level of total salts dissolved in the water increases. This is aggravated by the fact that there is little rain to dilute the water, wells are often only 20-60 meter above sea level and the island is small, 270 km square and land is always close to the sea.

Desalinated water supplied to the town of Mindelo has a total EC of 470. The water in the well is high in salts and makes its use a problem. This is a common factor on the island.

With such limited water supplies it is essential that modern methods as drip irrigation and hydroponics way of production are adopted to reduce wastage and increase the production.

# Request for a Spanish University Volunteer

TOR # 1 y 20

The commercial desalinated water is expensive and piped only to the town of Mindelo. The quality is good and it would be perfectly acceptable for horticulture. The use of the desalinated water is suitable to the horticultural production only with the introduction of the new techniques and technologies of production such as Hydroponics Systems. The Hydroponics is a process that allows with, a reduced consumption of water and small physical effort, devotion and constancy, produce fresh vegetables, as well as other products as for example flowers in a small spaces, with recycled materials that could otherwise pollute the environment. This innovative model of Hydroponics System is now being empowered in Cape Verde by different multilateral and bilateral Cooperation, as for example the Spanish Agency for Cooperation (AECI), who is stimulating this specific knowledge from the Spanish Agriculture and Universities.

The AAN, through its small vegetable-garden in Ribeira de Vinha, it has had a very important role, yielding its fields for assay of new technologies and new varieties that have been introduced for the national institutions of Agricultural Research and Promotion, assuming a strong role to spread some technological innovations, that can contribute to increase the offers to the market and consequently to become the products more accessible.

Through this project ANN intend to set-up a demonstrative field (greenhouse) in the AAN “experimental garden” and train the staff and the farmers interested on new technologies and help them to set up similar structures in theirs fields.

To help the country to achieve this important goal and accomplish the **Millennium Development Goal 7: Ensure environmental sustainability**; Nature Friend’s Association (AAN) is requesting **2 UNITEs volunteers** to provide with human and knowledge resources through qualified volunteers in new horticultural production system, and new technologies of land conservation, as for example:

- To promote and disseminate the knowledge of land conservation and new environmental friendly ways of agricultural-production in Sao Vicente.
- To promote the use of alternative methods for horticultural production and alternatives crops (flower);
- To research and compile information about new horticultural production focused on hydroponics techniques of production.
- To appoint and train some trainers in new land conservation and new horticultural production including hydroponics techniques of production:
- To train the farmers on a new conscience of land conservation and facilitate implementation;
- To create a training guide on these issues;
- To spread the message of land management and new horticultural production as Hydroponics system in the peri-urban waist of Mindelo - S. Vicente.

The volunteers will work under the direct supervision of the Executive Director of AAN.

Expected results:

1. A training guide and specific training material to use in different trainings.
2. A general training to farmers on land management conservation and alternative methods for horticultural production and alternatives crops (flower).
3. Set up a system to train - the trainers (with members and staff of AAN) on:
  - Land management conservation and other related used with environment protection
  - Alternative methods for horticultural production and alternatives crops (flower)
  - Alternative horticultural production including hydroponics techniques of production:

They UNITEs volunteers would be also ask to participate in extra activities of AAN, as reforestation camps, monitoring visit to associates, environment education in the school communities, and other extra activities.

**The volunteer will be supporting the following area(s) of the MDGs.**

# Request for a Spanish University Volunteer

TOR # 1 y 20

Eradicate extreme poverty and hunger	Improve maternal health
Achieve universal primary education	Combat HIV/AIDS malaria and other diseases
Promote gender equality and empower women	<b>X Ensure environmental sustainability</b>
Reduce child mortality	Develop a global partnership for development

## Assignment target (i.e. capacity building impact):

In order to complete the work and all along their mission UNITEs volunteers will work with the staff of AAN. A focal point for the volunteers will be selected among the farmers. They would be introduced to all the local partners and political actors, as the delegation of Agricultural minister in Sao Vicente, mayor staff in charge of agriculture, responsible of NGO Platform and other NGOs working in the same field in Sao Vicente. Volunteers are encouraged to use all their knowledge to create new initiatives around environment protection.

The volunteers will be placed in Sao Vicente Island, in the main city of Mindelo. They will travel around the island for their work with the ANN car project, or other transport that ANN staff use for their day by day work. The volunteers will work at the small vegetable-garden in Ribeira de Vinha.

## Support is requested in the following fields:

<b>X training of staff</b>	<input type="checkbox"/> mainstreaming ICT into work process
<input type="checkbox"/> Training of students	<input type="checkbox"/> setting up of networks
<b>X Train-the-Trainers</b>	<input type="checkbox"/> curricula development
<input type="checkbox"/> Setting up of websites	<input type="checkbox"/> other: _____

## Required Volunteer qualifications:

**Education:** Last years of bachelor degree in agriculture engineering, environment or other related background

**Language:** Portuguese or Spanish

**Specific skills in requested area:** Knowledge on alternative methods for horticultural production and hydroponics would be recommended

**Computer/software skills:** Microsoft Office package as Excel, Access, Word. Internet.

**Additional skills:** Engagement with sustainable development and environment  
Use to work or share experience on the field with land managers and farms.  
Shares knowledge and experience and provides helpful advice.  
Capacity to adapt easily to specific conditions of developing country and sub-regions

**Other Information:** Sao Vicente is recommended because of their cultural activities, land of the capeverdean cultural ambassador Cesaria Evora.

**Location of assignment:** Mindelo, Sao Vicente Island

**Type and approximate cost of available accommodation<sup>1</sup>:** Apartment, 450 Euros/month

<sup>1</sup> The accommodation for university volunteers has to be compliant with the Minimum Operating Residential Security Standards (MORSS). It needs to be cleared by the UN Field Security Officer prior to the fielding of the volunteers. **They need to be estimated or budgeted at the TOR request when filling the form**, if any.

# Request for a Spanish University Volunteer

TOR # 1 y 20

**Security provision and approximate costs:**

Extra training costs = 190 € (Mindelo - Praia – Mindelo);

Cape Verde is on phase security 0, meaning the situation as assessed by the UN Security Officer is regular and there is no particular concern. The locks of doors cost around 70 euros. Other security measures are already in place.

**Means of local transport for the volunteer:** Project car

**What other facilities will be offered to the university volunteer(s):** Participate in extra activities carried out by the Association all related with environment and nature.

Visa requirements \_\_\_\_\_ visa needed \_\_\_\_\_