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**LAKE VICTORIA SHORE ENVIRONMENTAL HIV/AIDS PROJECT TANZANIA (LAVISEHA) P.O.BOX 11582 MHANDU, MWANZA TANZANIA, EAST AFRICA.   
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**Project title**

Documenting data on sources of environmental pollution in Mwanza city, Tanzania.

**Grant request in Euros**

14,775.70

**Project details**

Provide a short abstract here. The detailed description of what it is you would like to work on should be provided in the QEP.

This project is a map project that will be conducted in Mwanza city of Tanzania to clarify the status of environmental pollution. The project intends to put into the map all places which are the sources of environmental pollution in Mwanza city by using GIS tools. The project will merge some GIS tools which will be monitored by QGIS tool. The QGIS tool will enable the implementing volunteer staff to symbolize, analyze and present all created vector data in relation to environmental pollution in Mwanza city. Volunteering staff will map all sources of environmental pollution in all 18 wards of Mwanza city by using tools including Organic Maps, Vespucci, iDEditor/Tasking Manager, ODK and OSMAnd. The sources of environmental pollution in Mwanza city which are not greatly dealt with to solve the problem are fishing areas, market places, industrial places, institutions, hospitals, sports grounds, open spaces, dumping places, water sources, bus & hiace stands, garages and agricultural places. The project will make and print 500 maps to be shared to stakeholders for showing the endangered places of environmental pollution for reaction to solve the problem.

The final results of this project are:

* All 18 wards of Mwanza city mapped.
* 500 maps of Mwanza city made, printed and distributed to local government officials, stakeholders and community members.
* 700 sources of environmental pollution in Mwanza city identified, mapped and shared through maps distribution and presentation for problem solving.
* 10 LAVISEHA volunteering staffs upgrade GIS skills, blog writing skills, QEP skills and more strengthen capacity for GIS projects implementation.

Mwanza, Tanzania’s second most populous city [after Dar-es-Salaam](https://www.downtoearth.org.in/blog/africa/dar-es-salaam-s-waste-management-needs-a-complete-revamp-87428), is experiencing fast population growth. The city is seeing both natural increase and migration from other parts of the country. As a result, solid waste generation is also increasing rapidly, adding to pollution in Lake Victoria.

The city has a land area of 256.45 square kilometres, of which nearly 72 per cent is terrestrial land and 28 per cent is covered by water, primarily in Lake Victoria. It is also located on the southern shores of the lake.

Most of the land area is urbanized, while the remaining areas consist of forested land, valleys, cultivated plains, grassy and undulating rocky hill areas, indicating its rich ecosystem. The practice of source separation of waste and formal sorting within Mwanza city council does not exist

**History**

Tell us a little about what work has already been done related to your grant proposal. Are you starting from scratch or are do you plan to build on the work of others?

The Lake Victoria Shore Environmental HIV/AIDS Project Tanzania (LAVISEHA) was established in 2015 by 12 Founder Members as a Community-Based Organization (CBO) working in Nyamagana and Ilemela district Mwanza Region of Tanzania with registration number MCC/CD//CBO/10247. Now there are 20 community members within the Organization. LAVISEHA is based in Nyamagana district Mwanza Region of Tanzania. LAVISEHA has been granted a permission letter by the Regional Administrative Secretary (RAS) for Mwanza Region to operate the project in the other two districts of Mwanza (Magu and Ukerewe). The aim for the organization is to fight social and economic problems within their community and Mwanza region as a whole. The Organization was formed due to the concern of assisting the initiated efforts of the Nation on alleviating poverty among the Community hence mitigate the cross cutting issues.

The main **goal** is to improve the livelihood of the community in groups by building capacity through application of technologies that can raise communities’ income.

The **objectives** of the organization are:

* To ensure the environment is maintained.
* To fight the spread of HIV/AIDS.
* To provide education support to orphans.
* To address gender equity issues.
* To involve local government leaders in project activities.

LAVISEHA has implemented several projects including planting various tree species to protect the environment in Mwanza region, supporting HIV/AIDS orphans in Nyamagana district, reintegrating street boys and girls with their families, fighting gender based violence in Magu district by use of GIS tools and rescue strategies.

In GIS projects, LAVISEHA conducted a mapping project to map buildings, roads and points of interest in Magu district for fighting Gender-Based Violence (GBV). In this project 208 community members and local government officials were educated on fighting Gender – Based Violence (GBV), 3,977 buildings were edited, 37 GBV champions were selected for fighting GBV, 228 km of roads were mapped and 7 LAVISEHA personnel attended special training in GIS tools and Gender dimension and equality in 2021-2022. Our project’s link is here: <https://tasks.hotosm.org/projects/11371>.

**Qualifications to do the project**

Tell us about previous work you have done that will demonstrate that you have the needed skills and enthusiasm to complete this task.

In GIS projects, LAVISEHA conducted a mapping project to map buildings, roads and points of interest in Magu district for fighting Gender-Based Violence (GBV). In this project 208 community members and local government officials were educated on fighting Gender – Based Violence (GBV), 3,977 buildings were edited, 37 GBV champions were selected for fighting GBV, 228 km of roads were mapped and 7 LAVISEHA personnel attended special training in GIS tools and Gender dimension and equality in 2021-2022. In this project, LAVISEHA used GIS tools including QGIS, Organic Maps, ODK & Kobo tool box and iDEditor/Tasking Manager. LAVISEHA volunteering staffs were trained in JOSM, QGIS, ODK & Kobo tool box, Organic Maps, iDEditor/Tasking Manager, Vespucci, accessing OpenStreetMap Data and OSMAnd. All the weekly catch ups/follow ups and reporting regarding the project implementation were done online on a proper project Google drive because it was a period of Covid-19. LAVISEHA volunteering staffs were trained by OpenMap Development Tanzania (OMDTZ), an Organization that funded the project. Our project’s link is here: <https://tasks.hotosm.org/projects/11371>. Our project’s report is here: <https://docs.google.com/document/d/1WCWyM_IAiVugW-rc5tK4eUBjYN3l_FfX/edit?usp=sharing&ouid=104861165205818559757&rtpof=true&sd=true>. The usernames for LAVISEHA volunteering staffs are here: cndaki2005, laviseha2013, raymondlughali, brightsyliv, hsylivester, mpaulo84, Nicklas1997. These seven GIS-competent volunteering staffs together with other 3 newly-recruited volunteering staffs - most of them being youth who are college graduates – are greatly able to complete this project.

**Implementation schedule / plan**

Lay out for us what will be done when. Please try to tie your work plan to the QGIS release schedule and other key activities in the QGIS project.

Our project implementation plan is as follows:

1. Meeting local government officials – July 2023.
2. Purchasing project equipment – July 2023.
3. Project orientation and training of newly-recruited volunteering staff – July 2023.
4. Field mapping, remote mapping and map making and printing – August – December 2023.
5. Monitoring and Evaluation – August 2023, October 2023, December 2023.
6. Report writing and sharing local government officials, stakeholders and funder (QGIS.ORG) – December 2023.